BODY BUILDER MANUAL

FOR

2015 Full Size C/K SUV

Electrical Body Builder Manual

Chevrolet Tahoe and Suburban,

GMC Yukon and Yukon XL,

Cadillac Escalade

Revision 1.2 www.gmupfitter.com *September 19, 2014*

Note to User:
As part of our mission to provide an up-to-date website that includes detailed Body Builder Manuals, Technical Bulletins, and Best Practice Manuals, we are now using sectional excerpts directly from the General Motors Service Information publications for our Electrical Body Builder Manuals.

You will note that the section numbers are non-sequential as we have provided only those that are believed to be the most pertinent to the Upfitter community and best suited to their needs.*

This new usage of the Service Information provides the opportunity for us to remain consistent with the changes that take place throughout the model year and to provide you updated information in a more timely fashion.

**** If you would like to have access to all of the electrical Service Information, please apply for a subscription from ACDelco at http://acdelcotechconnect.com/html/tss_tech_esi.jsp***

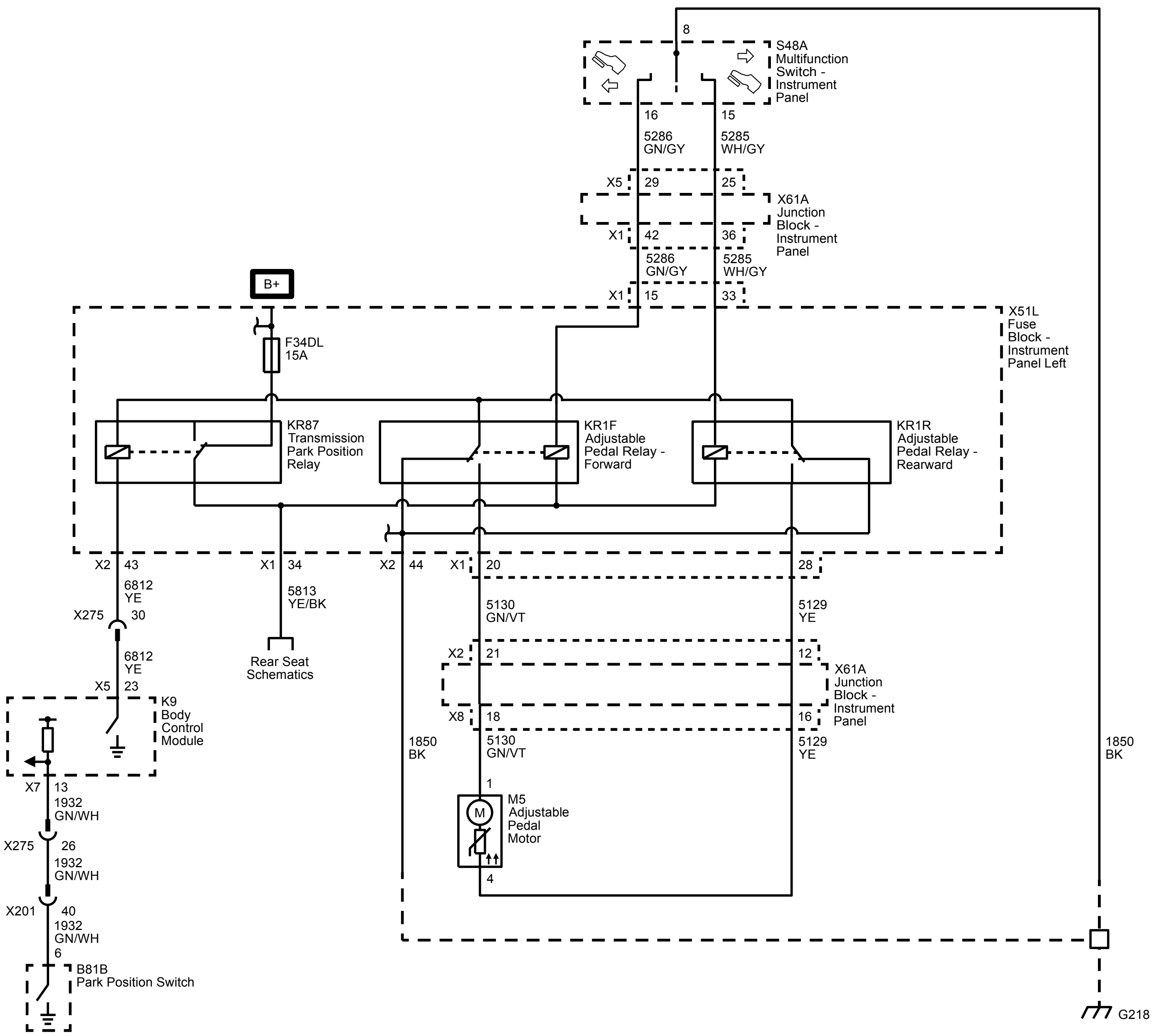
Body Systems

Adjustable Pedals

Schematic and Routing Diagrams

Adjustable Pedal Schematics

Adjustable Pedals (JF4 without A45)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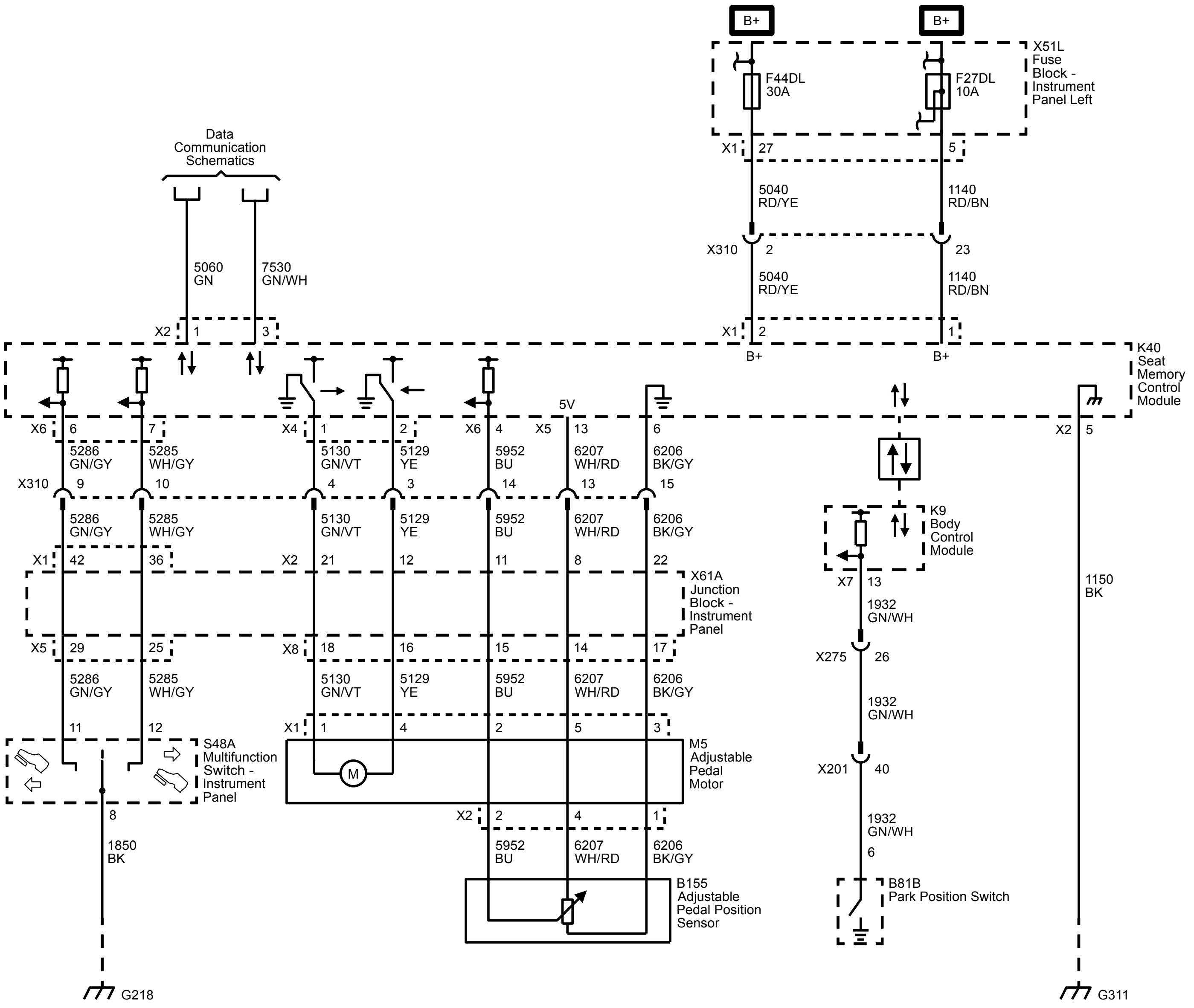
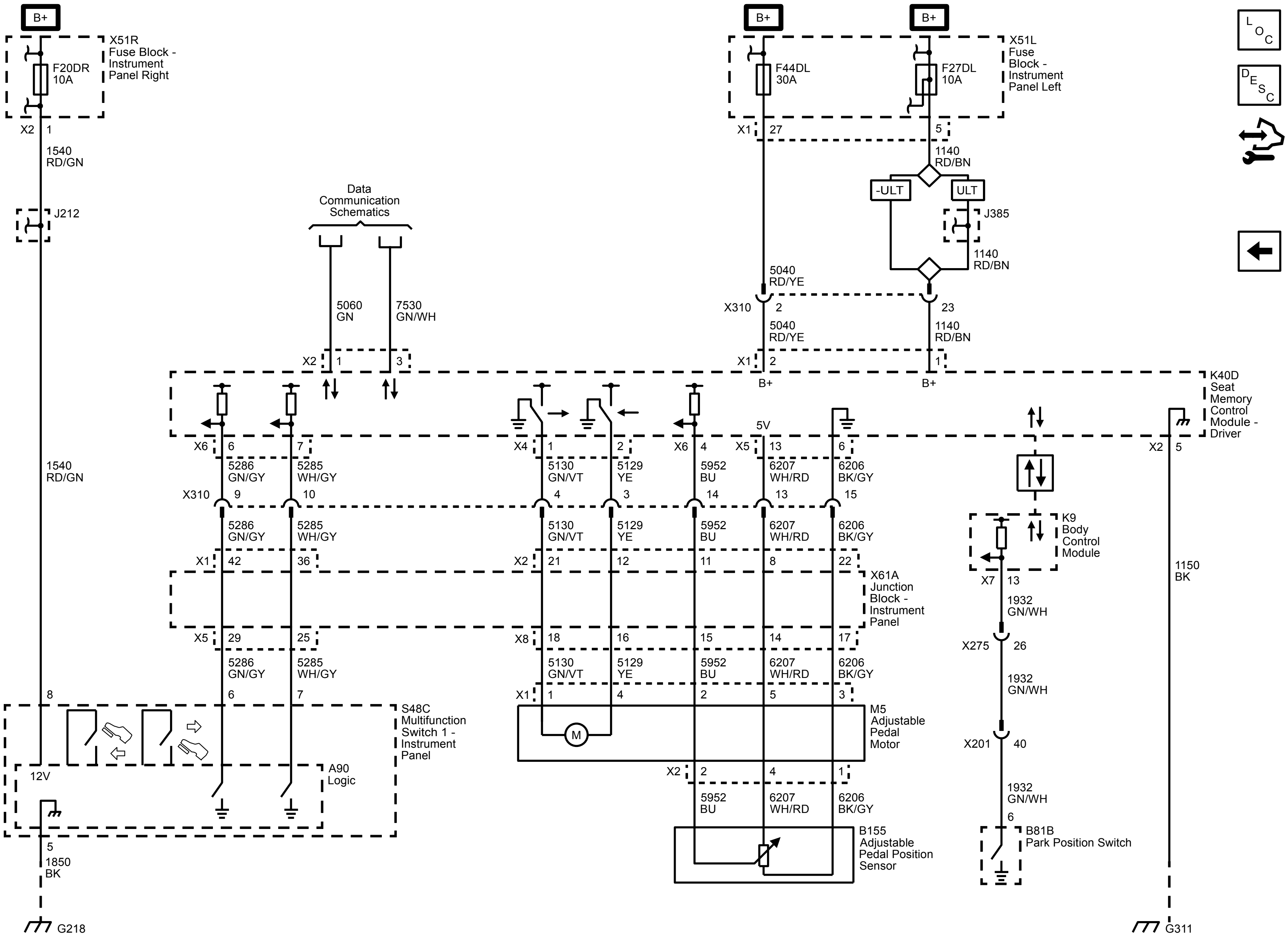
S48A
Multifunction
Switch -
Instrument
Panel
16
15
5286
GN/GY
5285
WH/GY
X5
29
25
X61A
Junction
Block -
Instrument
Panel
X1
42
36
5286
GN/GY
5285
WH/GY
X1
15
33
B+
X51L
Fuse
Block -
Instrument
Panel Left
F34DL
15A
KR87
Transmission
Park Position
Relay
KR1F
Adjustable
Pedal Relay -
Forward
KR1R
Adjustable
Pedal Relay -
Rearward
X2
43
X1
34
X2
44
X1
20
28
6812
YE
X275
30
5813
YE/BK
5130
GN/VT
5129
YE
6812
YE
Rear Seat
Schematics
X2
21
12
X61A
Junction
Block -
Instrument
Panel
X5
23
K9
Body
Control
Module
X8
18
16
1850
BK
5130
GN/VT
5129
YE
1850
BK
X7
13
1932
GN/WH
1
M
M5
Adjustable
Pedal
Motor
4
X275
26
1932
GN/WH
X201
40
1932
GN/WH
6
B81B
Park Position Switch
G218

Adjustable Pedals (X88 or Z88 with JF4 and A45)


B+
B+
X51L
Fuse
Block -
Instrument
Panel Left
F44DL
30A
F27DL
10A
X1
27
5
5040
RD/YE
1140
RD/BN
X310
2
23
5040
RD/YE
1140
RD/BN
X1
2
1
B+
B+
Data
Communication
Schematics
5060
GN
7530
GN/WH
X2
1
3
K40
Seat
Memory
Control
Module
5V
X6
6
7
X4
1
2
X6
4
X5
13
6
X2
5
5286
GN/GY
5285
WH/GY
5130
GN/VT
5129
YE
5952
BU
6207
WH/RD
6206
BK/GY
X310
9
10
4
3
14
13
15
5286
GN/GY
5285
WH/GY
5130
GN/VT
5129
YE
5952
BU
6207
WH/RD
6206
BK/GY
X1
42
36
X2
21
12
11
8
22
X61A
Junction
Block -
Instrument
Panel
X5
29
25
X8
18
16
15
14
17
5286
GN/GY
5285
WH/GY
5130
GN/VT
5129
YE
5952
BU
6207
WH/RD
6206
BK/GY
11
12
S48A
Multifunction
Switch -
Instrument
Panel
8
1850
BK
G218
X1
1
4
2
5
3
M
M5
Adjustable
Pedal
Motor
X2
2
4
1
5952
BU
6207
WH/RD
6206
BK/GY
B155
Adjustable
Pedal Position
Sensor
K9
Body
Control
Module
X7
13
1932
GN/WH
X275
26
1932
GN/WH
X201
40
1932
GN/WH
6
B81B
Park Position Switch
1150
BK
G311

Adjustable Pedals (Z75)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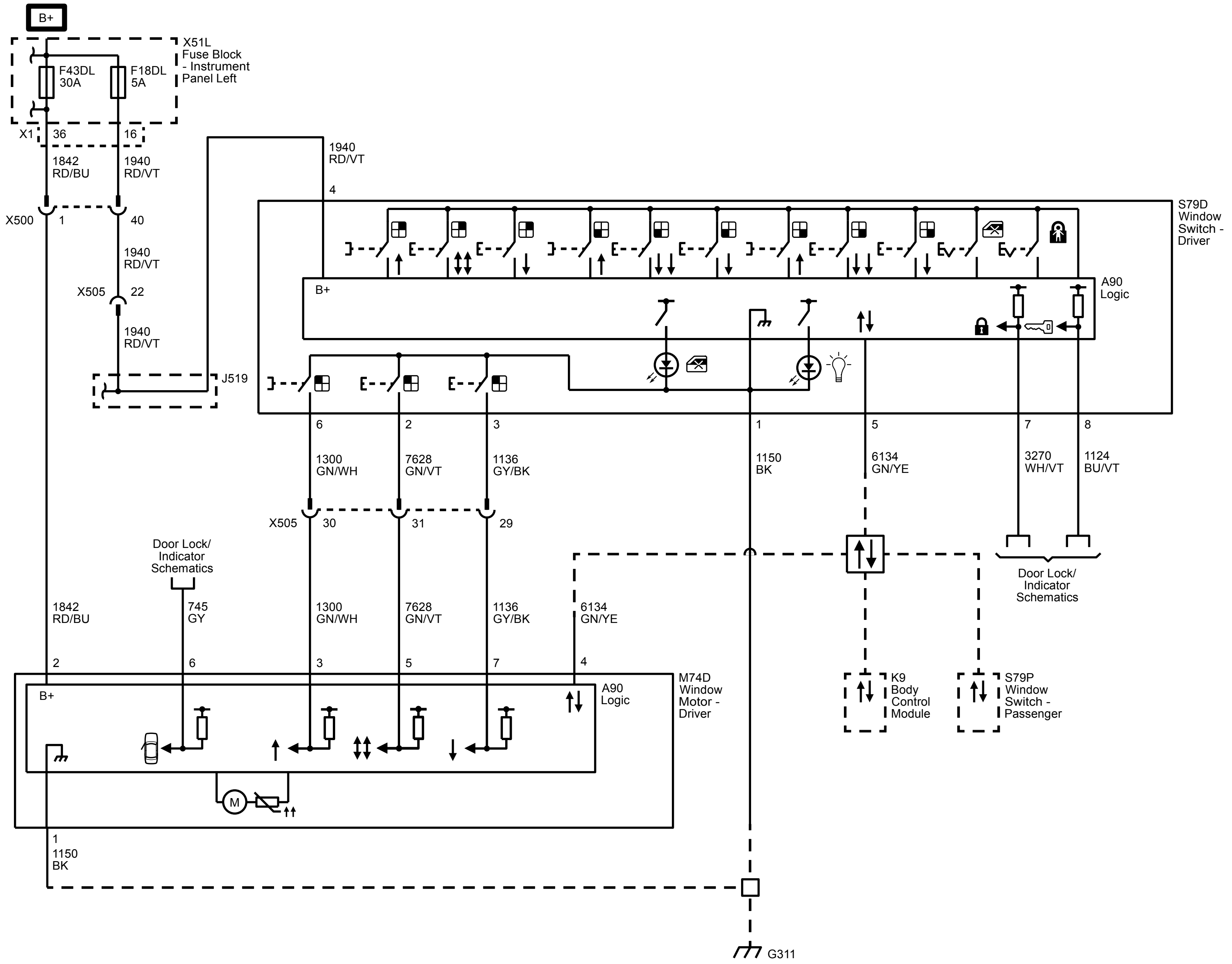
X51R
Fuse Block - Instrument Panel Right
F20DR
10A
X2
1
1540
RD/GN
J212
Data Communication Schematics
5060
GN
7530
GN/WH
B+
B+
F44DL
30A
F27DL
10A
X51L
Fuse Block - Instrument Panel Left
X1
27
5
1140
RD/BN
-ULT
ULT
J385
1140
RD/BN
5040
RD/YE
X310
2
23
5040
RD/YE
1140
RD/BN
X2
1
3
X1
2
1
B+
B+
K40D
Seat Memory Control Module - Driver
5V
X6
6
7
X4
1
2
X6
4
X5
13
6
X2
5
5286
GN/GY
5285
WH/GY
5130
GN/VT
5129
YE
5952
BU
6207
WH/RD
6206
BK/GY
X310
9
10
4
3
14
13
15
5286
GN/GY
5285
WH/GY
5130
GN/VT
5129
YE
5952
BU
6207
WH/RD
6206
BK/GY
X1
42
36
X2
21
12
11
8
22
X61A
Junction Block - Instrument Panel
X5
29
25
X8
18
16
15
14
17
5286
GN/GY
5285
WH/GY
5130
GN/VT
5129
YE
5952
BU
6207
WH/RD
6206
BK/GY
8
6
7
S48C
Multifunction Switch 1 - Instrument Panel
A90
Logic
12V
5
1850
BK
G218
X1
1
4
2
5
3
M
M5
Adjustable Pedal Motor
X2
2
4
1
5952
BU
6207
WH/RD
6206
BK/GY
B155
Adjustable Pedal Position Sensor
K9
Body Control Module
X7
13
1932
GN/WH
X275
26
1932
GN/WH
X201
40
1932
GN/WH
6
B81B
Park Position Switch
1150
BK
G311
LOC
DESC

Fixed and Moveable Windows

Schematic and Routing Diagrams

Moveable Window Schematics

Driver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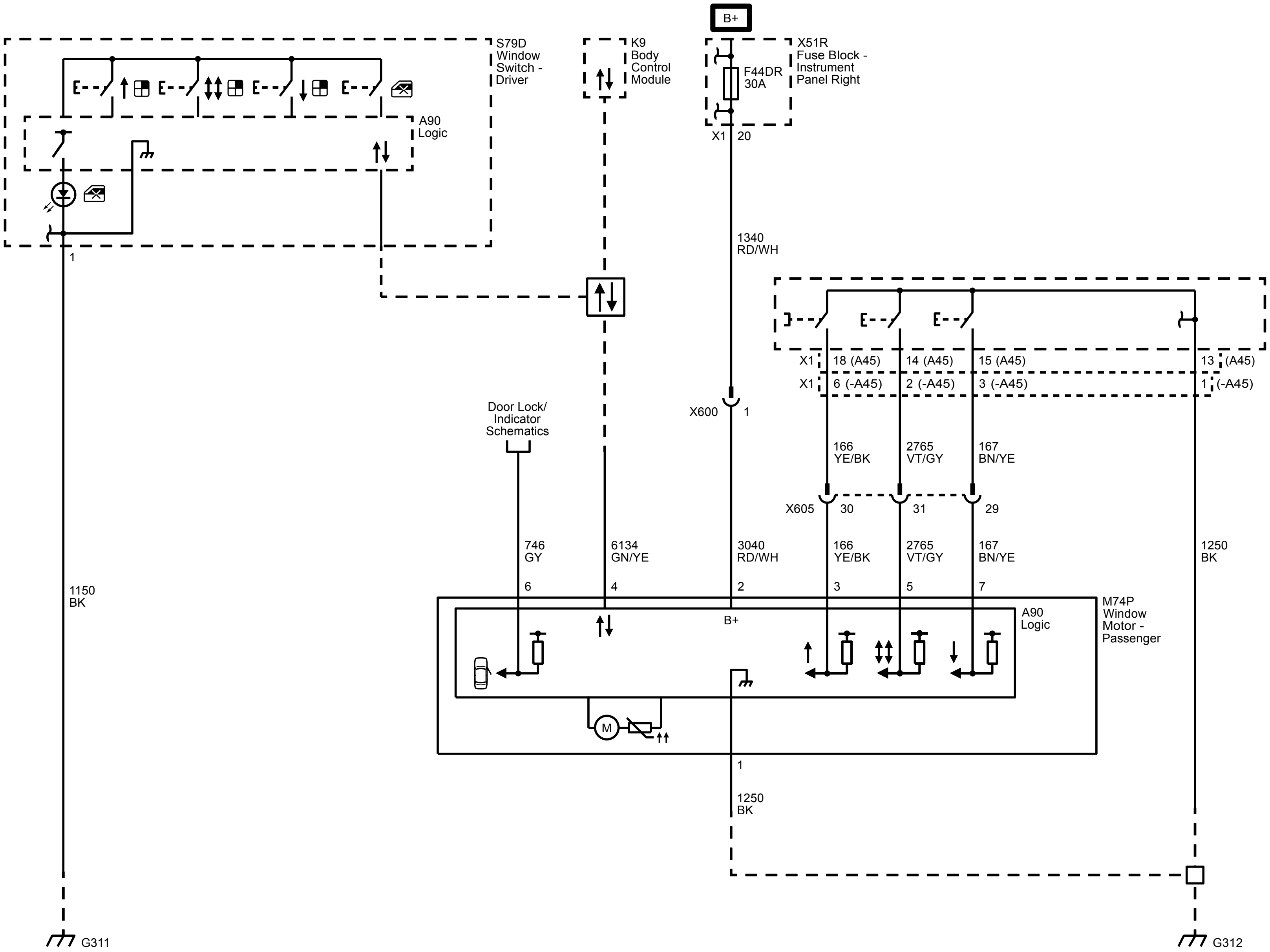
X51L
Fuse Block
- Instrument
Panel Left
F43DL
30A
F18DL
5A
X1
36
16
1842
RD/BU
1940
RD/VT
1940
RD/VT
4
X500
1
40
1940
RD/VT
X505
22
1940
RD/VT
J519
S79D
Window
Switch -
Driver
B+
A90
Logic
6
2
3
1
5
7
8
1300
GN/WH
7628
GN/VT
1136
GY/BK
1150
BK
6134
GN/YE
3270
WH/VT
1124
BU/VT
X505
30
31
29
Door Lock/
Indicator
Schematics
Door Lock/
Indicator
Schematics
745
GY
1842
RD/BU
1300
GN/WH
7628
GN/VT
1136
GY/BK
6134
GN/YE
2
6
3
5
7
4
B+
A90
Logic
M74D
Window
Motor -
Driver
M
K9
Body
Control
Module
S79P
Window
Switch -
Passenger
1
1150
BK
G311

Passenger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Window
Switch -
Driver
A90
Logic
1
1150
BK
G311
K9
Body
Control
Module
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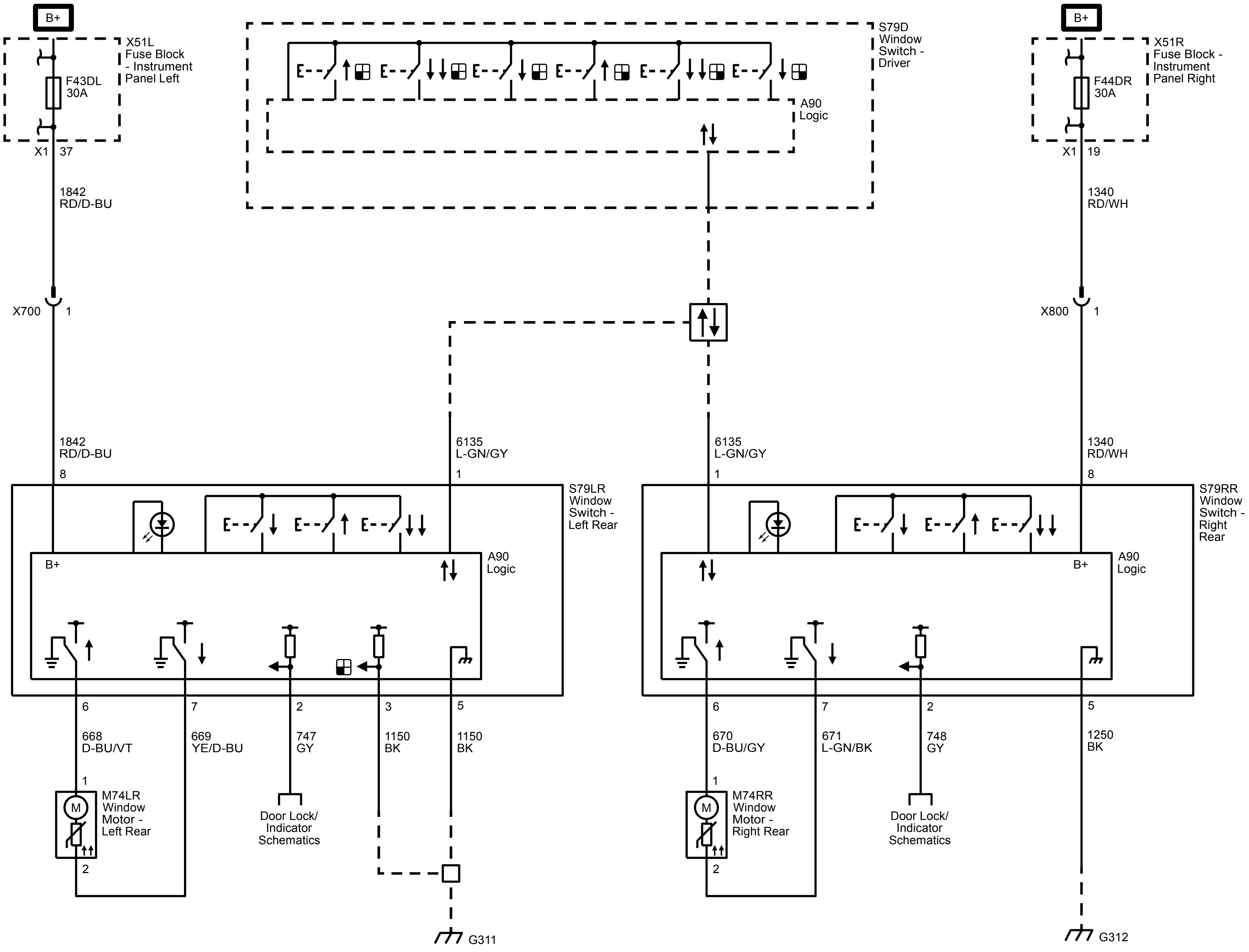
F44DR
30A
X51R
Fuse Block -
Instrument
Panel Right
X1
20
1340
RD/WH
X600
1
S79P
Window
Switch -
Passenger
X1
18 (A45)
14 (A45)
15 (A45)
13 (A45)
X1
6 (-A45)
2 (-A45)
3 (-A45)
1 (-A45)
Door Lock/
Indicator
Schematics
166
YE/BK
2765
VT/GY
167
BN/YE
X605
30
31
29
746
GY
6134
GN/YE
3040
RD/WH
166
YE/BK
2765
VT/GY
167
BN/YE
1250
BK
6
4
2
3
5
7
B+
A90
Logic
M74P
Window
Motor -
Passenger
M
1
1250
BK
G312

Rear Doors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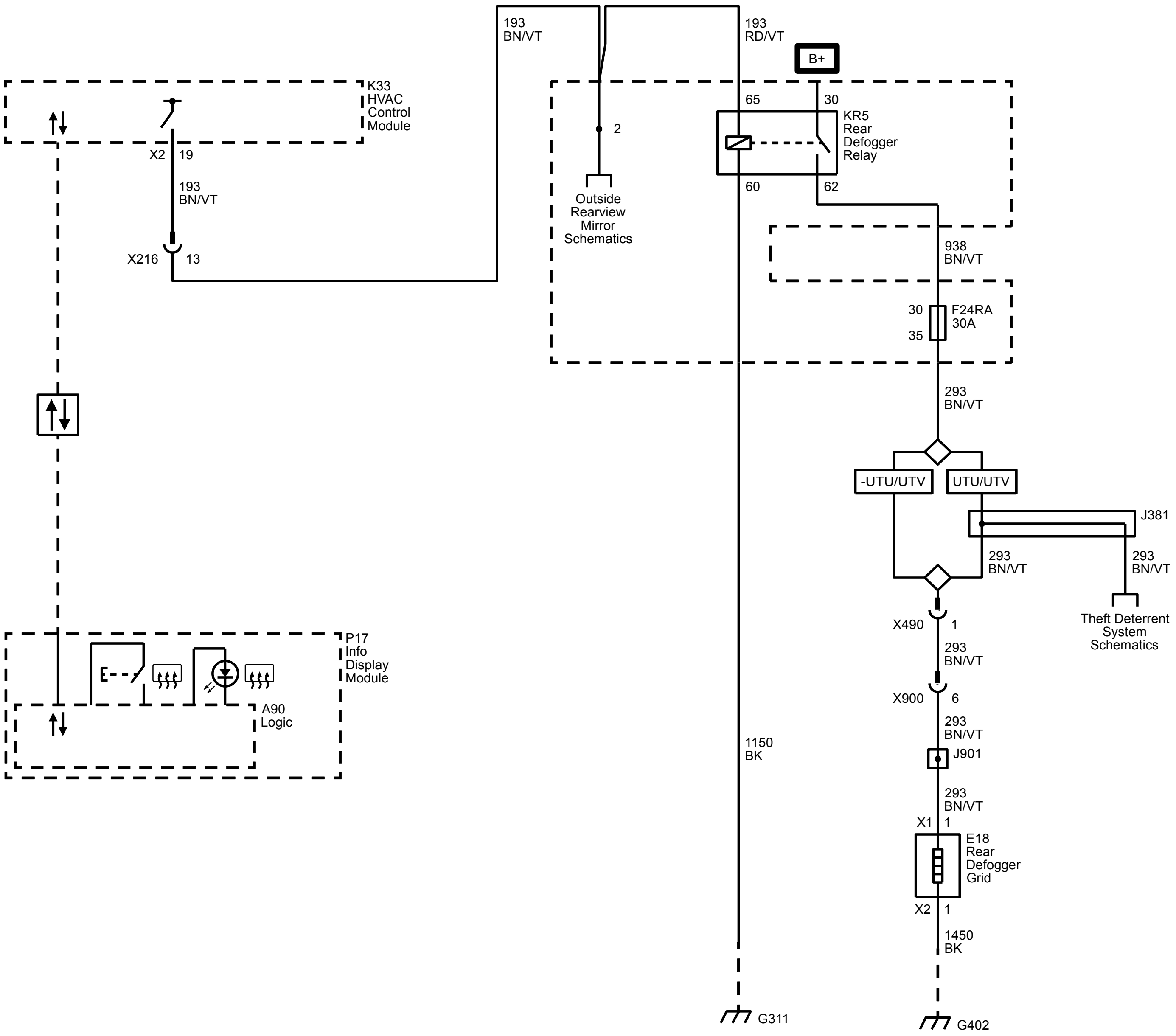
X51L
Fuse Block - Instrument Panel Left
F43DL
30A
X1
37
1842
RD/D-BU
X700
1
1842
RD/D-BU
8
S79D
Window Switch - Driver
A90
Logic
6135
L-GN/GY
1
6135
L-GN/GY
1
B+
X51R
Fuse Block - Instrument Panel Right
F44DR
30A
X1
19
1340
RD/WH
X800
1
1340
RD/WH
8
S79LR
Window Switch - Left Rear
A90
Logic
B+
6
7
2
3
5
668
D-BU/VT
669
YE/D-BU
747
GY
1150
BK
1150
BK
1
M
M74LR
Window Motor - Left Rear
2
Door Lock/ Indicator Schematics
G311
S79RR
Window Switch - Right Rear
A90
Logic
B+
6
7
2
5
670
D-BU/GY
671
L-GN/BK
748
GY
1250
BK
1
M
M74RR
Window Motor - Right Rear
2
Door Lock/ Indicator Schematics
G312

Defogger Schematics

Defogger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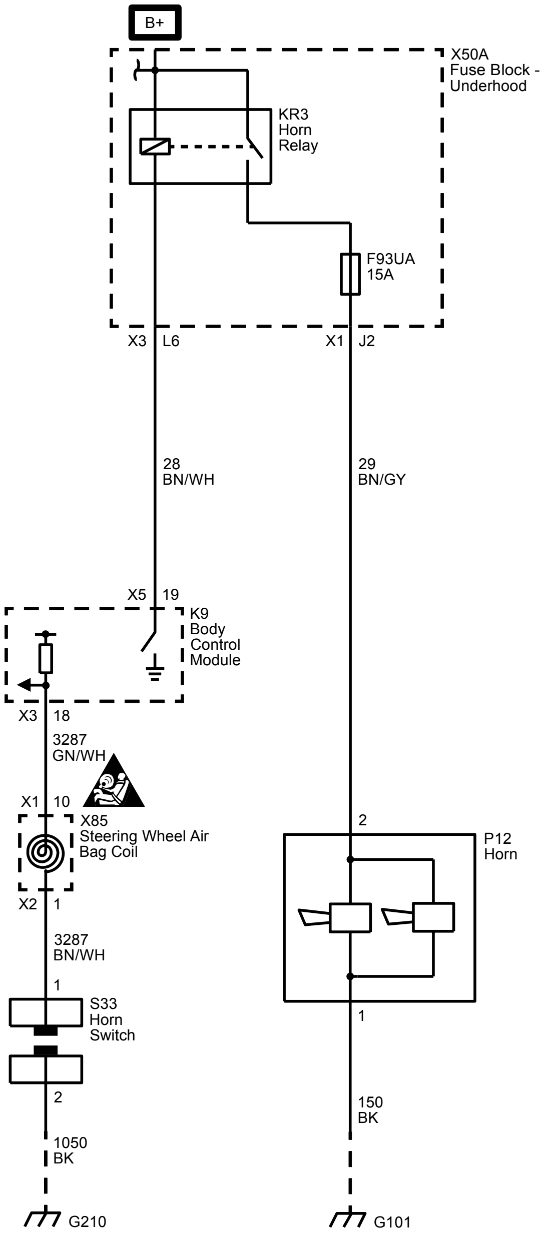
BN/VT
193
RD/VT
B+
K33
HVAC
Control
Module
X2
19
193
BN/VT
X216
13
2
Outside
Rearview
Mirror
Schematics
65
30
KR5
Rear
Defogger
Relay
60
62
938
BN/VT
30
35
F24RA
30A
293
BN/VT
-UTU/UTV
UTU/UTV
J381
293
BN/VT
293
BN/VT
Theft Deterrent
System
Schematics
X490
1
293
BN/VT
X900
6
293
BN/VT
J901
293
BN/VT
X1
1
E18
Rear
Defogger
Grid
X2
1
1450
BK
1150
BK
G311
G402
P17
Info
Display
Module
A90
Logic

Horns

Schematic and Routing Diagrams

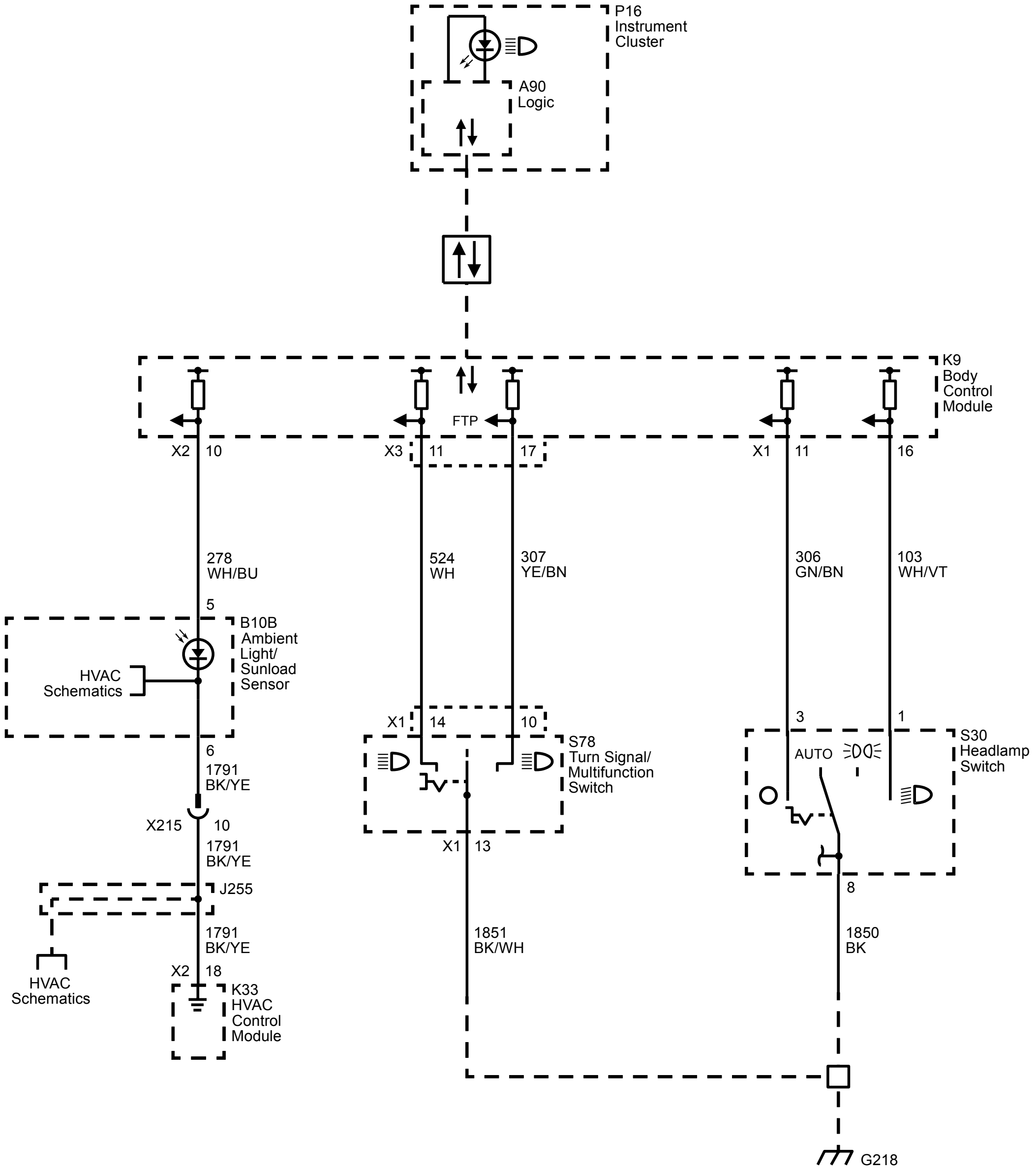
Horn Schematics

Horn


B+
X50A
Fuse Block - Underhood
KR3
Horn
Relay
F93UA
15A
X3
L6
X1
J2
28
BN/WH
29
BN/GY
X5
19
K9
Body
Control
Module
X3
18
3287
GN/WH
X1
10
X85
Steering Wheel Air Bag Coil
X2
1
3287
BN/WH
1
S33
Horn
Switch
2
1050
BK
G210
2
P12
Horn
1
150
BK
G101

Headlights/Daytime Running Lights (DRL) Schematics (X88 or Z88)

Controls and Indicator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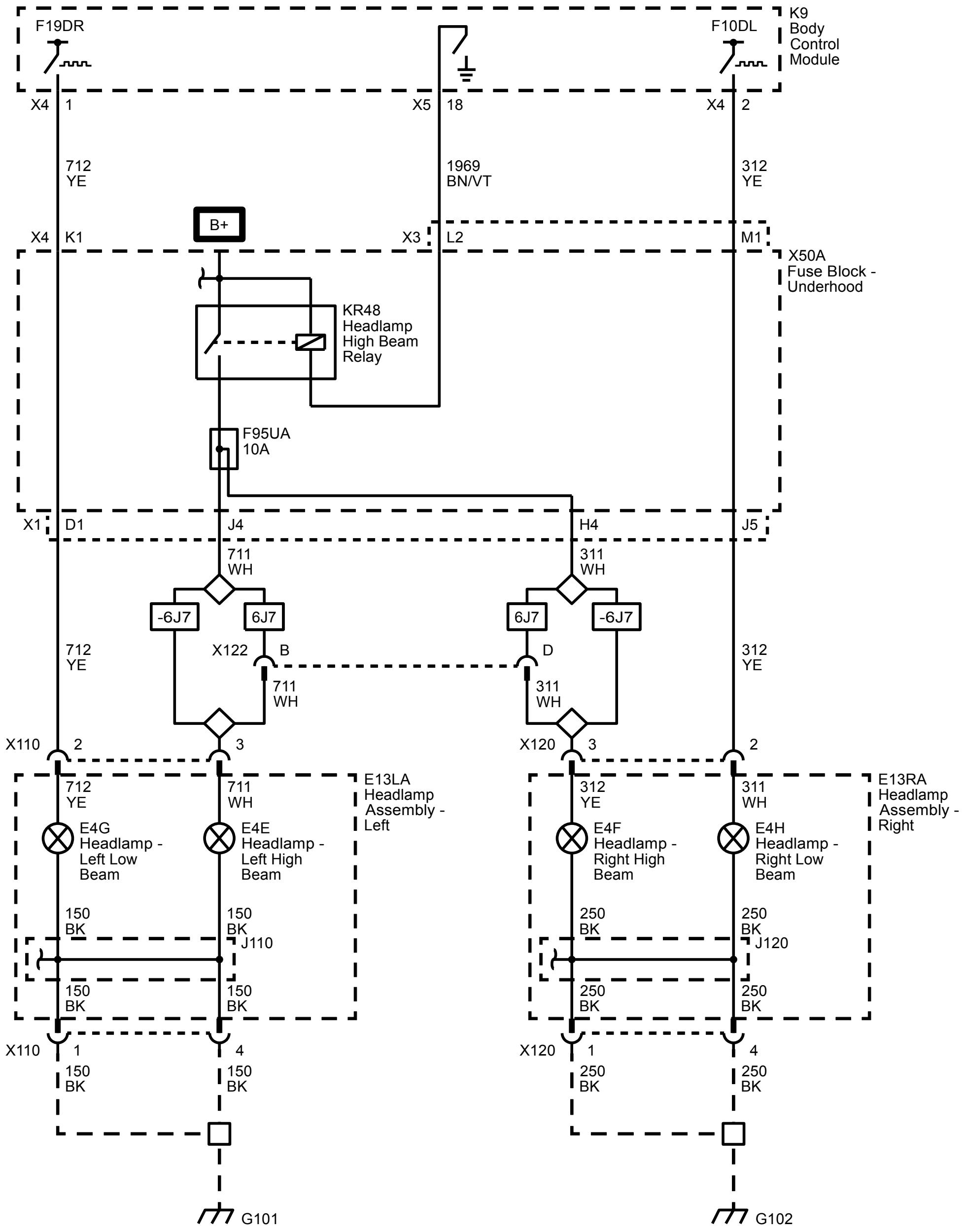
Instrument
Cluster
A90
Logic
K9
Body
Control
Module
FTP
X2
10
X3
11
17
X1
11
16
278
WH/BU
524
WH
307
YE/BN
306
GN/BN
103
WH/VT
5
B10B
Ambient
Light/
Sunload
Sensor
HVAC
Schematics
6
1791
BK/YE
X215
10
1791
BK/YE
J255
1791
BK/YE
X2
18
HVAC
Schematics
K33
HVAC
Control
Module
X1
14
10
S78
Turn Signal/
Multifunction
Switch
X1
13
1851
BK/WH
3
1
AUTO
S30
Headlamp
Switch
8
1850
BK
G218

Halogen (without T4F) and Daytime Running Lights (X88 without TB8 or T4F)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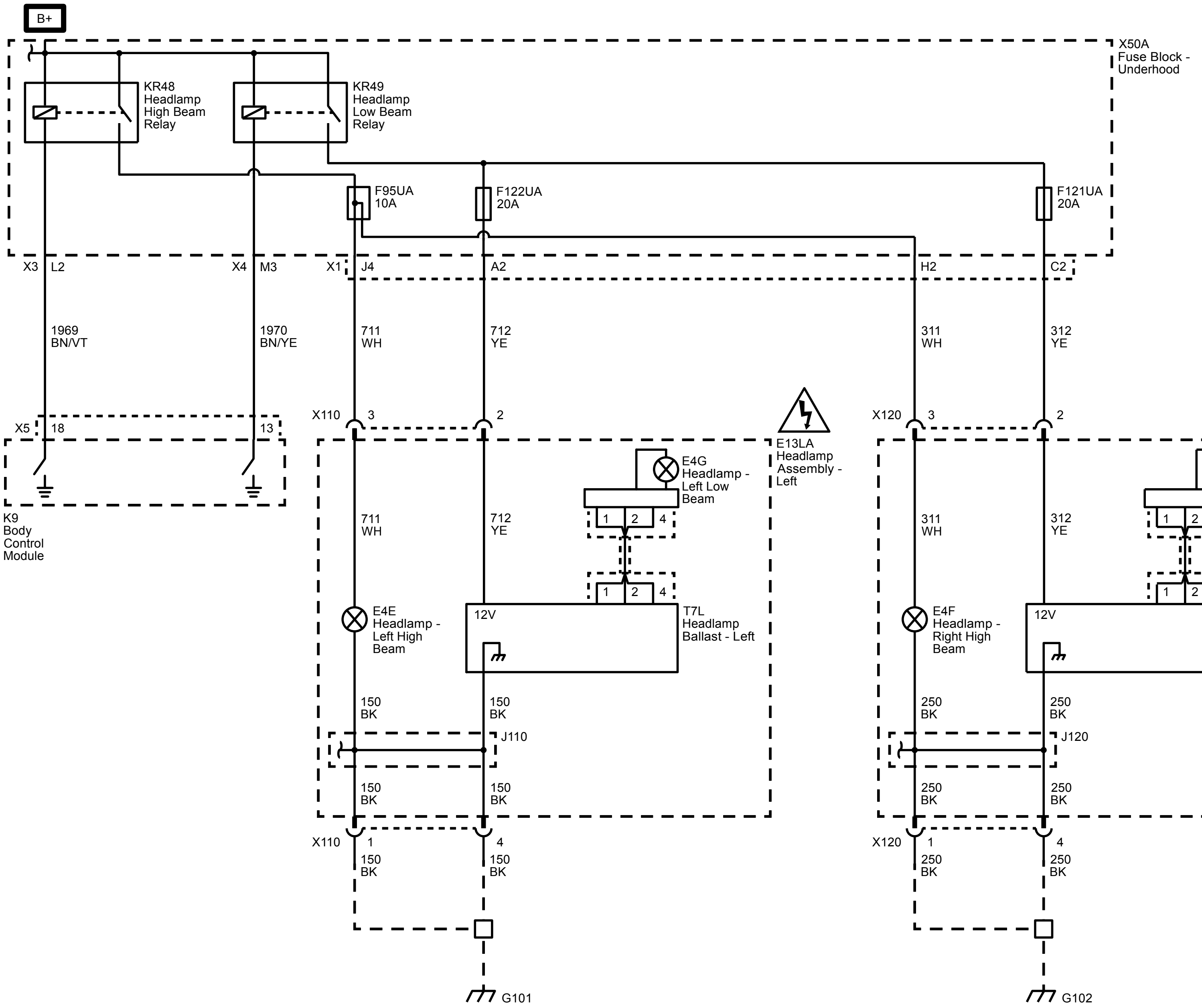
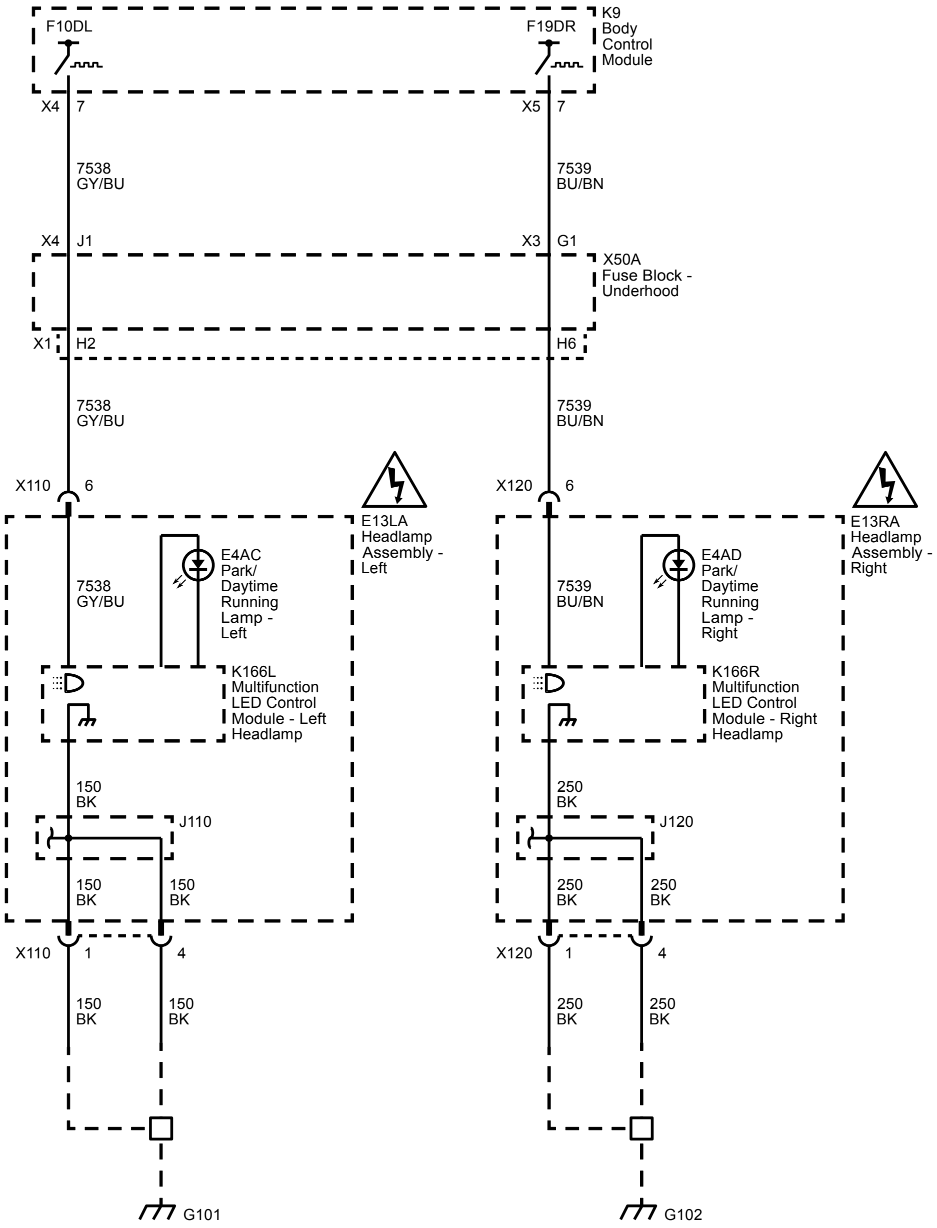
F10DL
K9
Body
Control
Module
X4
1
X5
18
X4
2
712
YE
1969
BN/VT
312
YE
B+
X4
K1
X3
L2
M1
X50A
Fuse Block -
Underhood
KR48
Headlamp
High Beam
Relay
F95UA
10A
X1
D1
J4
H4
J5
711
WH
311
WH
-6J7
6J7
6J7
-6J7
712
YE
X122
B
D
312
YE
711
WH
311
WH
X110
2
3
X120
3
2
712
YE
711
WH
E13LA
Headlamp
Assembly -
Left
312
YE
311
WH
E13RA
Headlamp
Assembly -
Right
E4G
Headlamp -
Left Low
Beam
E4E
Headlamp -
Left High
Beam
E4F
Headlamp -
Right High
Beam
E4H
Headlamp -
Right Low
Beam
150
BK
150
BK
J110
250
BK
250
BK
J120
150
BK
150
BK
250
BK
250
BK
X110
1
4
X120
1
4
150
BK
150
BK
250
BK
250
BK
G101
G102

High Intensity Discharge (T4F)


B+
KR48 Headlamp High Beam Relay
KR49 Headlamp Low Beam Relay
X50A Fuse Block - Underhood
F95UA 10A
F122UA 20A
F121UA 20A
X3 L2
X4 M3
X1 J4
A2
H2
C2
1969 BN/VT
1970 BN/YE
711 WH
712 YE
311 WH
312 YE
X5 18
13
K9 Body Control Module
X110 3
2
X120 3
2
E13LA Headlamp Assembly - Left
E13RA Headlamp Assembly - Right
E4G Headlamp - Left Low Beam
E4H Headlamp - Right Low Beam
1 2 4
1 2 4
12V
T7L Headlamp Ballast - Left
T7R Headlamp Ballast - Right
E4E Headlamp - Left High Beam
E4F Headlamp - Right High Beam
150 BK
250 BK
J110
J120
X110 1
4
X120 1
4
G101
G102

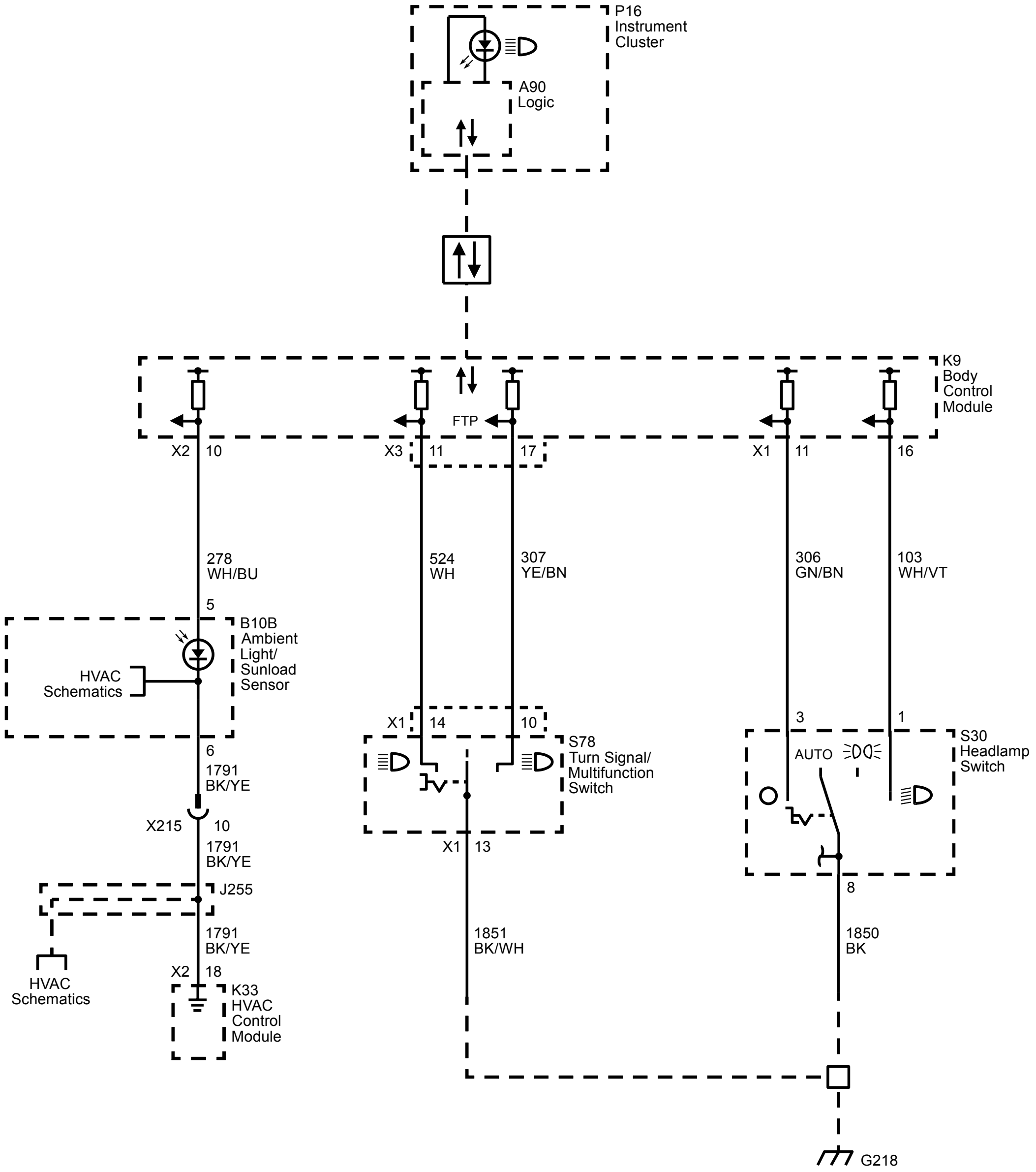
LOC
DESC

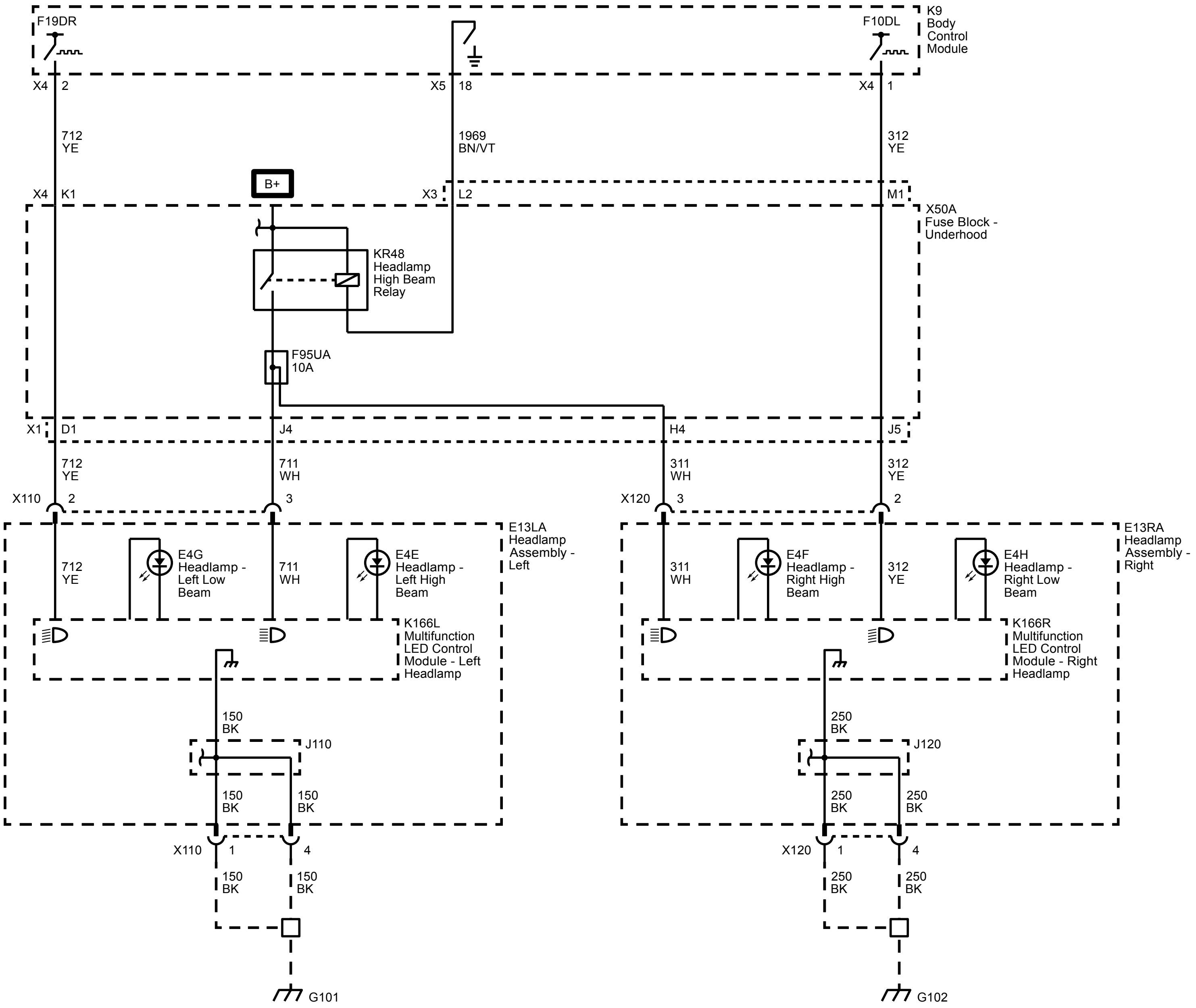
Daytime Running Lights (X88 with TB8 or T4F) or (Z88)


F10DL
F19DR
K9
Body
Control
Module
X4 7
X5 7
7538
GY/BU
7539
BU/BN
X4 J1
X3 G1
X50A
Fuse Block -
Underhood
X1 H2
H6
X110 6
X120 6
E13LA
Headlamp
Assembly -
Left
E13RA
Headlamp
Assembly -
Right
E4AC
Park/
Daytime
Running
Lamp -
Left
E4AD
Park/
Daytime
Running
Lamp -
Right
K166L
Multifunction
LED Control
Module - Left
Headlamp
K166R
Multifunction
LED Control
Module - Right
Headlamp
150
BK
250
BK
J110
J120
X110 1 4
X120 1 4
G101
G102

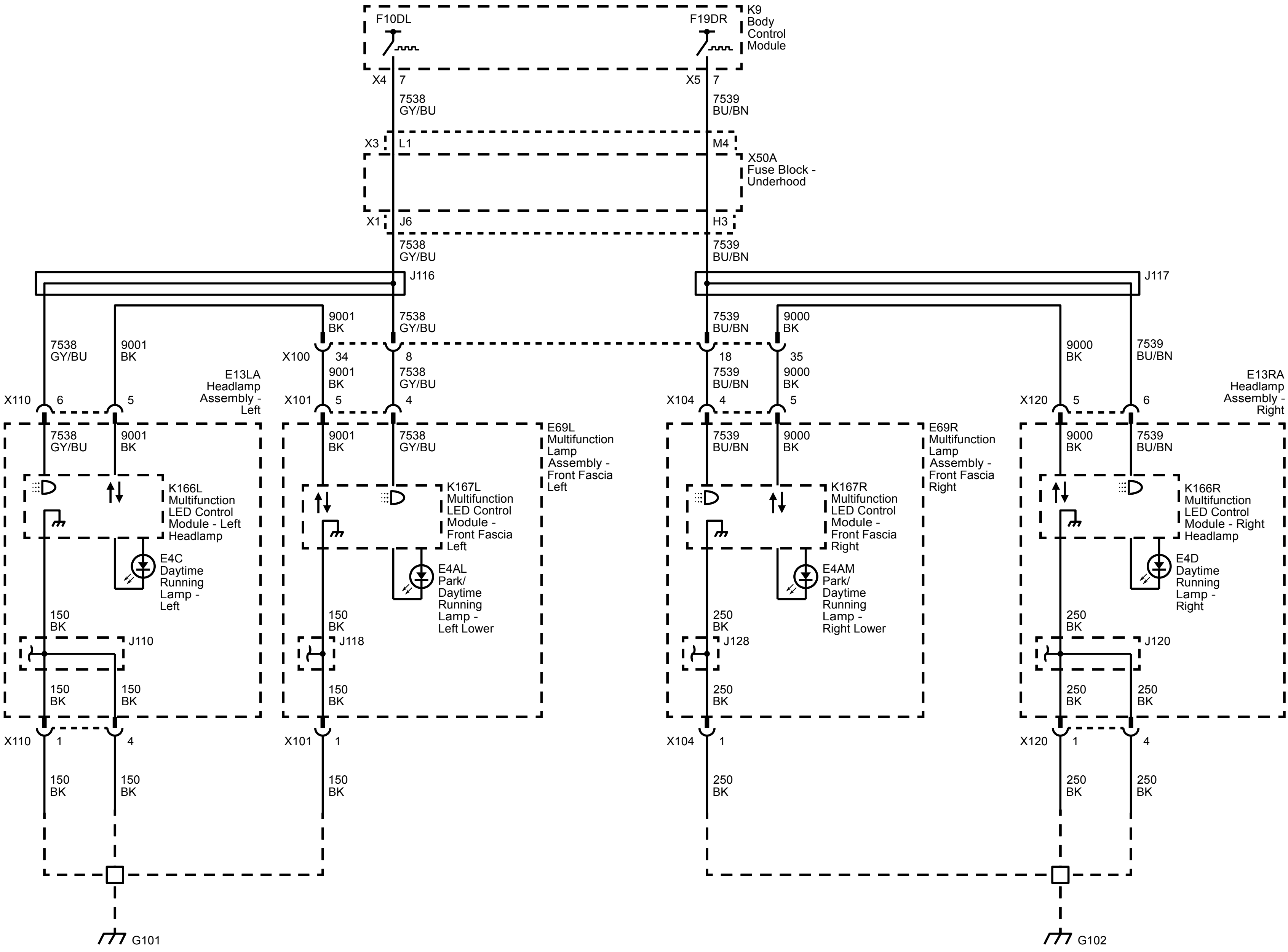
Headlights/Daytime Running Lights (DRL) Schematics (Z75)

Controls and Indicator


P16
Instrument
Cluster
A90
Logic
K9
Body
Control
Module
FTP
X2 10
X3 11 17
X1 11 16
278
WH/BU
524
WH
307
YE/BN
306
GN/BN
103
WH/VT
5
B10B
Ambient
Light/
Sunload
Sensor
HVAC
Schematics
6
1791
BK/YE
X215 10
1791
BK/YE
J255
1791
BK/YE
HVAC
Schematics
X2 18
K33
HVAC
Control
Module
X1 14 10
S78
Turn Signal/
Multifunction
Switch
X1 13
1851
BK/WH
3 1
S30
Headlamp
Switch
AUTO
8
1850
BK
G218


F19DR
K9
Body
Control
Module
F10DL
X4 2
X5 18
X4 1
712
YE
1969
BN/VT
312
YE
B+
X4 K1
X3 L2
M1
X50A
Fuse Block -
Underhood
KR48
Headlamp
High Beam
Relay
F95UA
10A
X1 D1
J4
H4
J5
712
YE
711
WH
311
WH
312
YE
X110 2
3
X120 3
2
E13LA
Headlamp
Assembly -
Left
E13RA
Headlamp
Assembly -
Right
E4G
Headlamp -
Left Low
Beam
E4E
Headlamp -
Left High
Beam
E4F
Headlamp -
Right High
Beam
E4H
Headlamp -
Right Low
Beam
K166L
Multifunction
LED Control
Module - Left
Headlamp
K166R
Multifunction
LED Control
Module - Right
Headlamp
150
BK
J110
250
BK
J120
X110 1
4
X120 1
4
G101
G102

Daytime Running Lights


K9
Body
Control
Module
F10DL
F19DR
X4
7
X5
7
7538
GY/BU
7539
BU/BN
X3
L1
M4
X50A
Fuse Block -
Underhood
X1
J6
H3
7538
GY/BU
7539
BU/BN
J116
J117
9001
BK
7538
GY/BU
7539
BU/BN
9000
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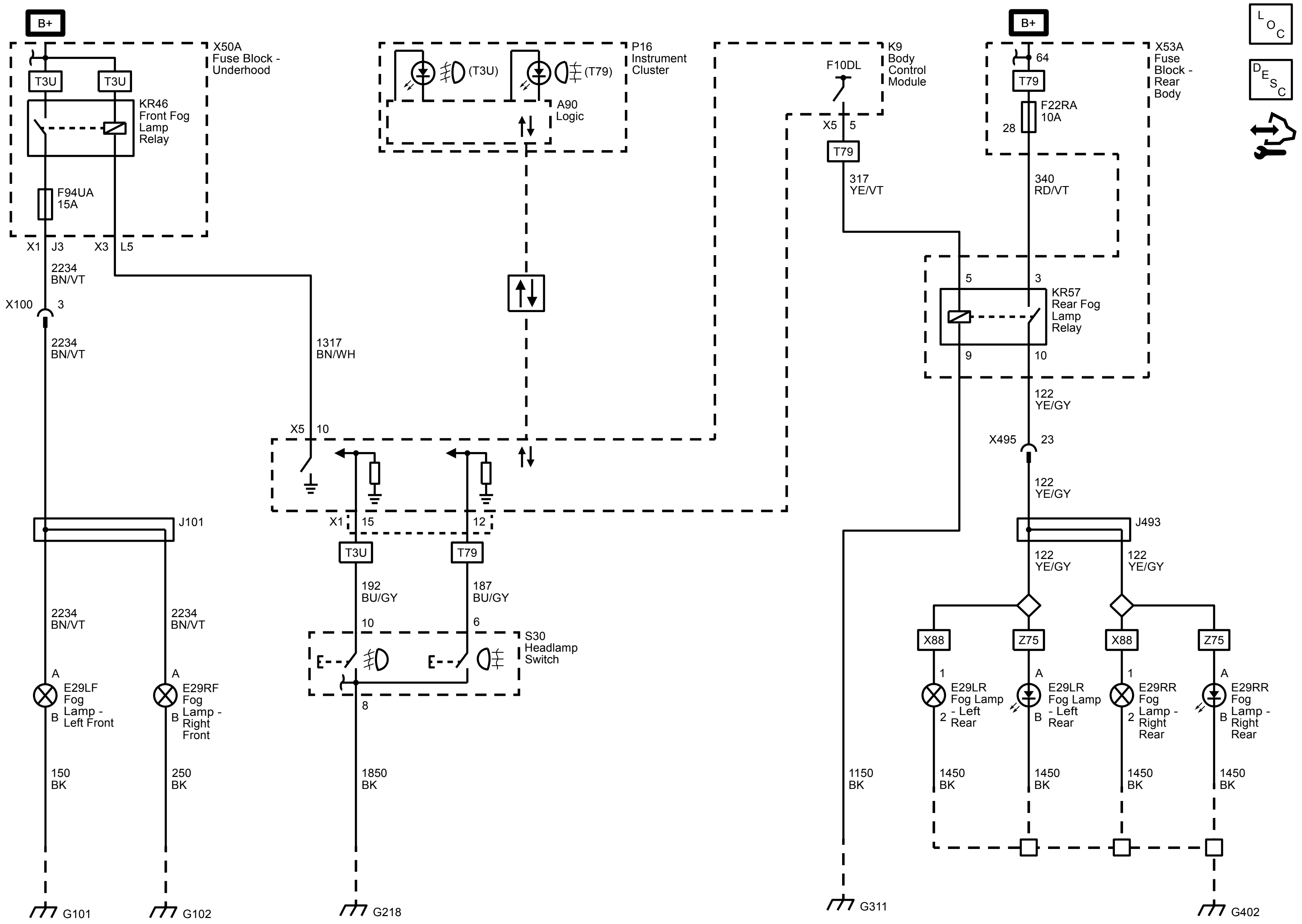
BK
9000
BK
7539
BU/BN
9001
BK
7538
GY/BU
7539
BU/BN
9000
BK
E13LA
Headlamp
Assembly -
Left
E13RA
Headlamp
Assembly -
Right
X110
6
5
X101
5
4
X104
4
5
X120
5
6
7538
GY/BU
9001
BK
9001
BK
7538
GY/BU
7539
BU/BN
9000
BK
9000
BK
7539
BU/BN
E69L
Multifunction
Lamp
Assembly -
Front Fascia
Left
E69R
Multifunction
Lamp
Assembly -
Front Fascia
Right
K166L
Multifunction
LED Control
Module - Left
Headlamp
K167L
Multifunction
LED Control
Module -
Front Fascia
Left
K167R
Multifunction
LED Control
Module -
Front Fascia
Right
K166R
Multifunction
LED Control
Module - Right
Headlamp
E4C
Daytime
Running
Lamp -
Left
E4AL
Park/
Daytime
Running
Lamp -
Left Lower
E4AM
Park/
Daytime
Running
Lamp -
Right Lower
E4D
Daytime
Running
Lamp -
Right
150
BK
150
BK
250
BK
250
BK
J110
J118
J128
J120
150
BK
150
BK
150
BK
250
BK
250
BK
250
BK
X110
1
4
X101
1
X104
1
X120
1
4
150
BK
150
BK
150
BK
250
BK
250
BK
250
BK
G101
G102

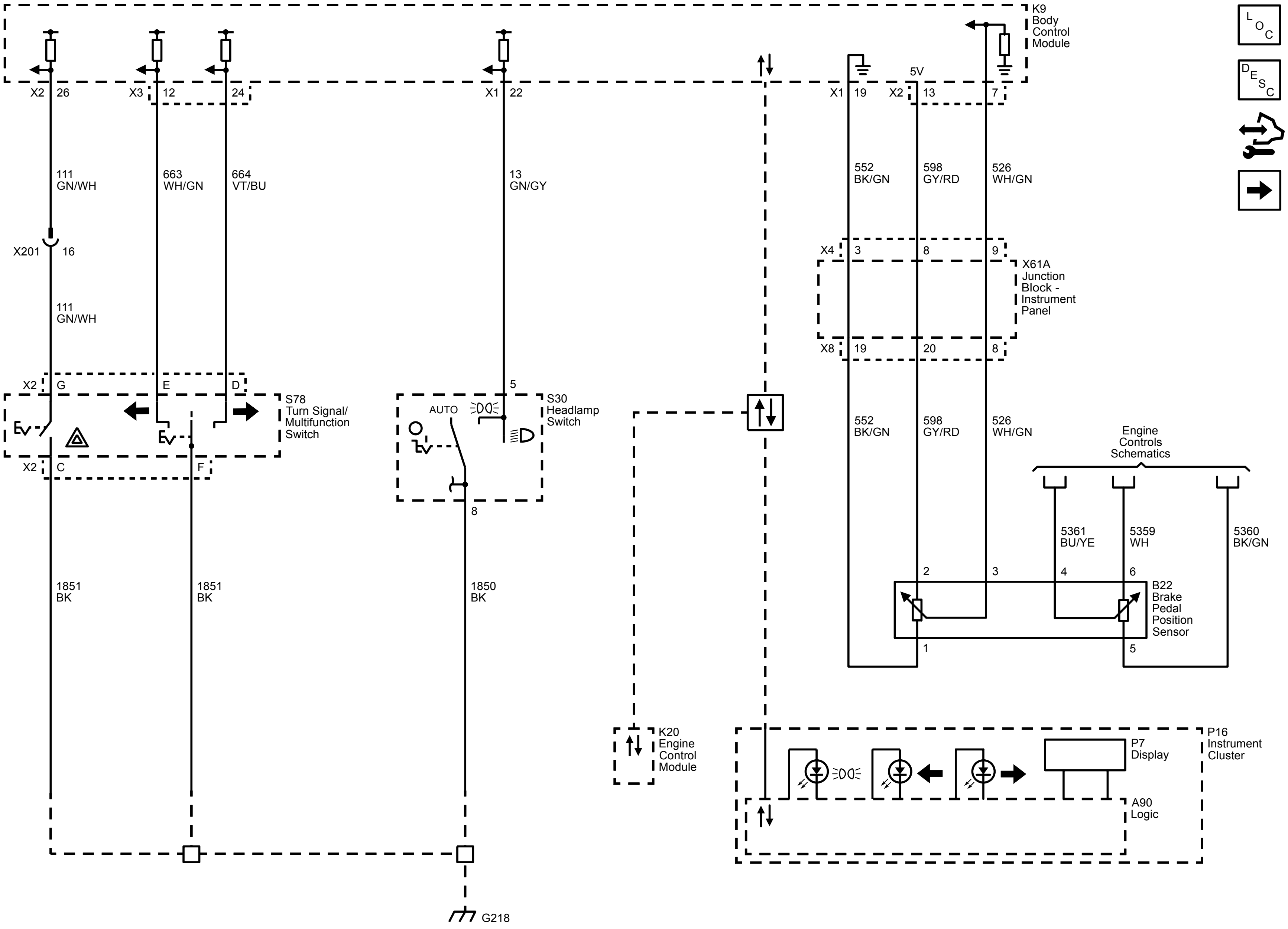
Fog Lights Schematics

Fog Lamps

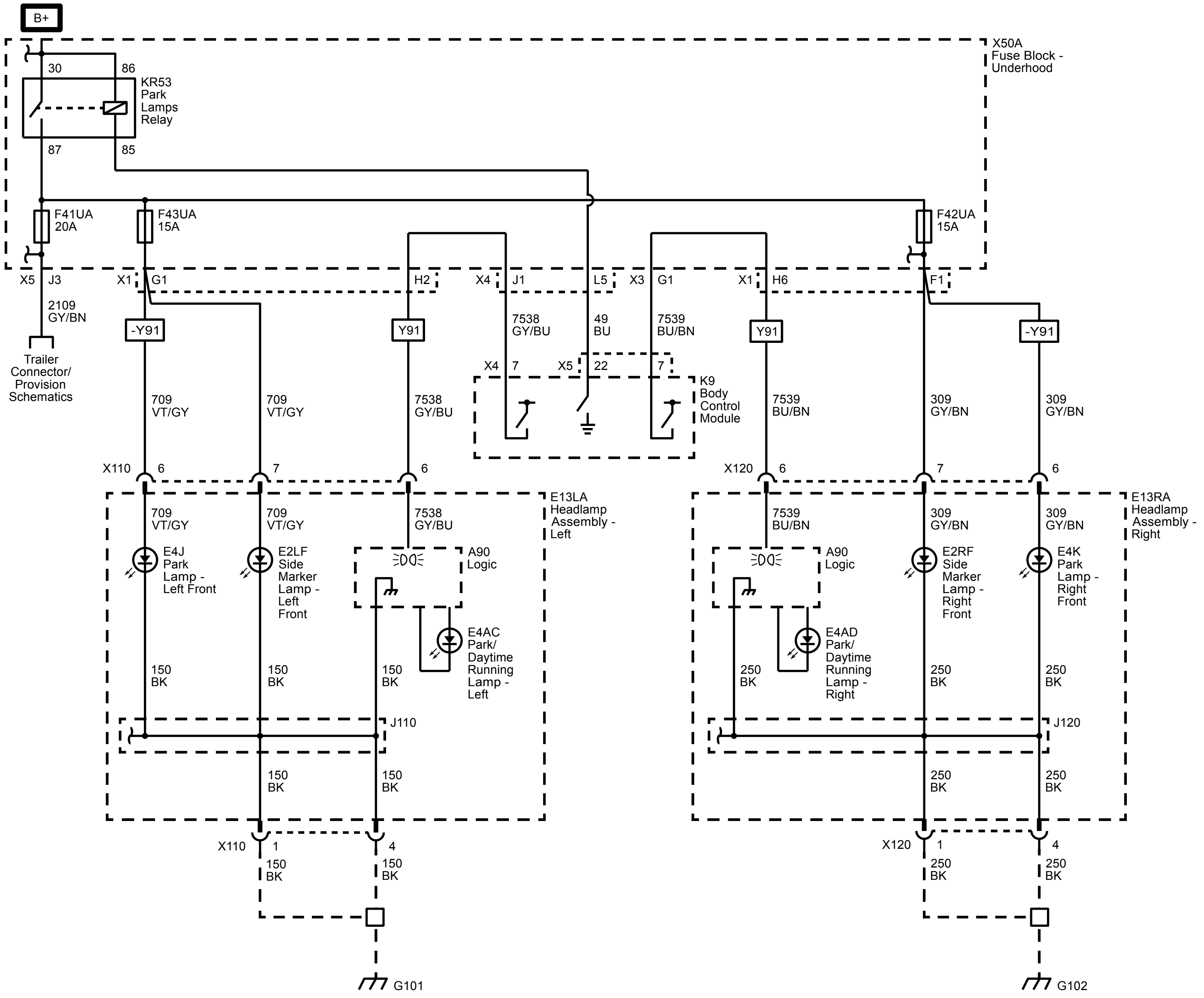

B+
X50A
Fuse Block -
Underhood
T3U
T3U
KR46
Front Fog
Lamp
Relay
F94UA
15A
X1 J3
X3 L5
2234
BN/VT
X100 3
2234
BN/VT
1317
BN/WH
J101
2234
BN/VT
2234
BN/VT
A
E29LF
Fog
Lamp -
Left Front
B
A
E29RF
Fog
Lamp -
Right
Front
B
150
BK
250
BK
G101
G102
(T3U)
(T79)
P16
Instrument
Cluster
A90
Logic
X5 10
X1 15
12
T3U
T79
192
BU/GY
187
BU/GY
10
6
S30
Headlamp
Switch
8
1850
BK
G218
F10DL
K9
Body
Control
Module
X5 5
T79
317
YE/VT
1150
BK
G311
B+
64
X53A
Fuse
Block -
Rear
Body
T79
F22RA
10A
28
340
RD/VT
5
3
KR57
Rear Fog
Lamp
Relay
9
10
122
YE/GY
X495 23
122
YE/GY
J493
122
YE/GY
122
YE/GY
X88
Z75
X88
Z75
1
E29LR
Fog Lamp
- Left
Rear
2
A
E29LR
Fog Lamp
- Left
Rear
B
1
E29RR
Fog
Lamp -
Right
Rear
2
A
E29RR
Fog
Lamp -
Right
Rear
B
1450
BK
1450
BK
1450
BK
1450
BK
G402
LOC
DESC

Exterior Lights Schematics

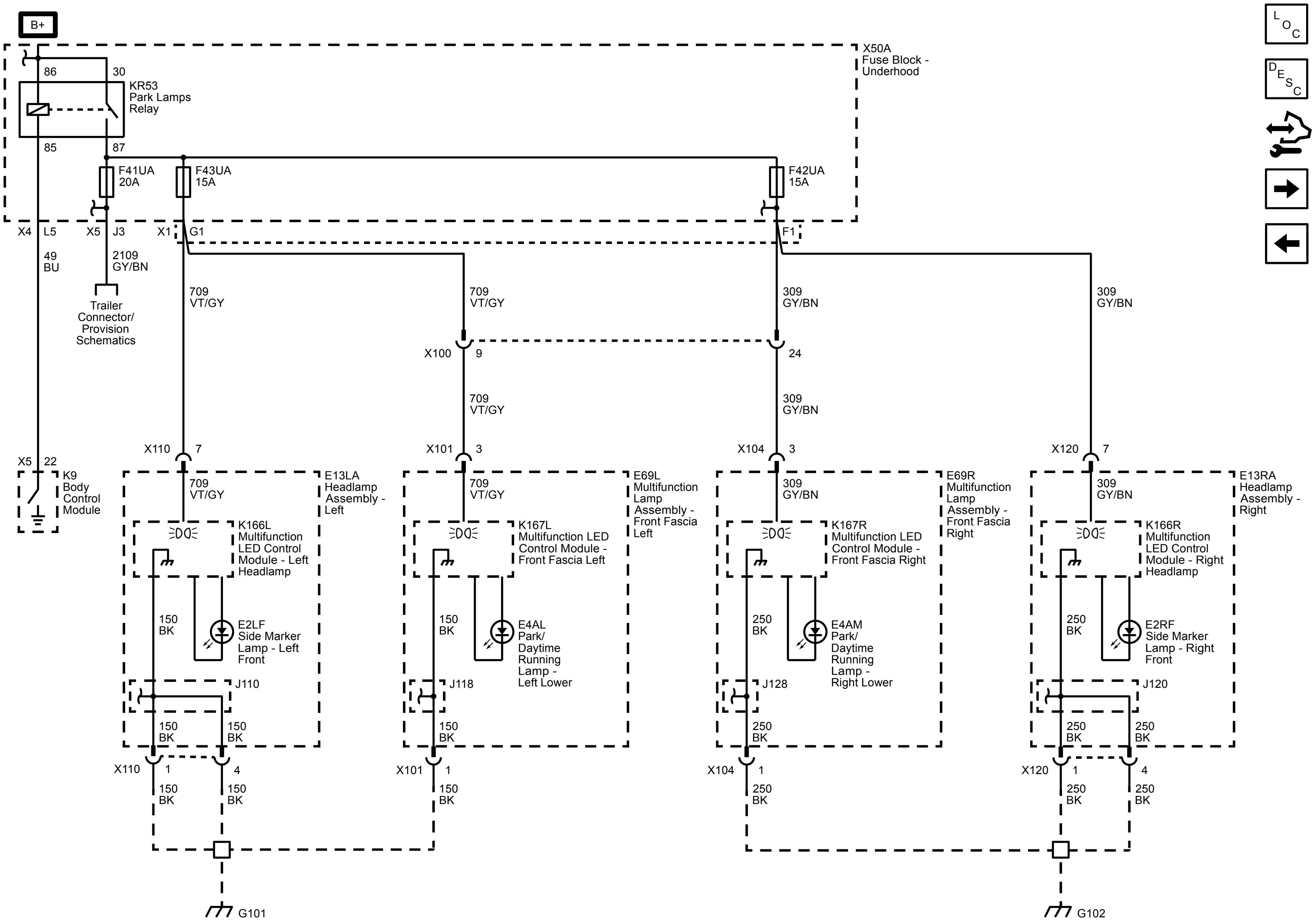
Parklamps and Controls


K9
Body
Control
Module
X2
26
X3
12
24
X1
22
5V
X1
19
X2
13
7
111
GN/WH
663
WH/GN
664
VT/BU
13
GN/GY
552
BK/GN
598
GY/RD
526
WH/GN
X201
16
111
GN/WH
X4
3
8
9
X61A
Junction
Block -
Instrument
Panel
X8
19
20
8
X2
G
E
D
S78
Turn Signal/
Multifunction
Switch
X2
C
F
5
AUTO
S30
Headlamp
Switch
8
552
BK/GN
598
GY/RD
526
WH/GN
Engine
Controls
Schematics
5361
BU/YE
5359
WH
5360
BK/GN
2
3
4
6
B22
Brake
Pedal
Position
Sensor
1
5
1851
BK
1851
BK
1850
BK
K20
Engine
Control
Module
P16
Instrument
Cluster
P7
Display
A90
Logic
G218
L
O
C
D
E
S
C

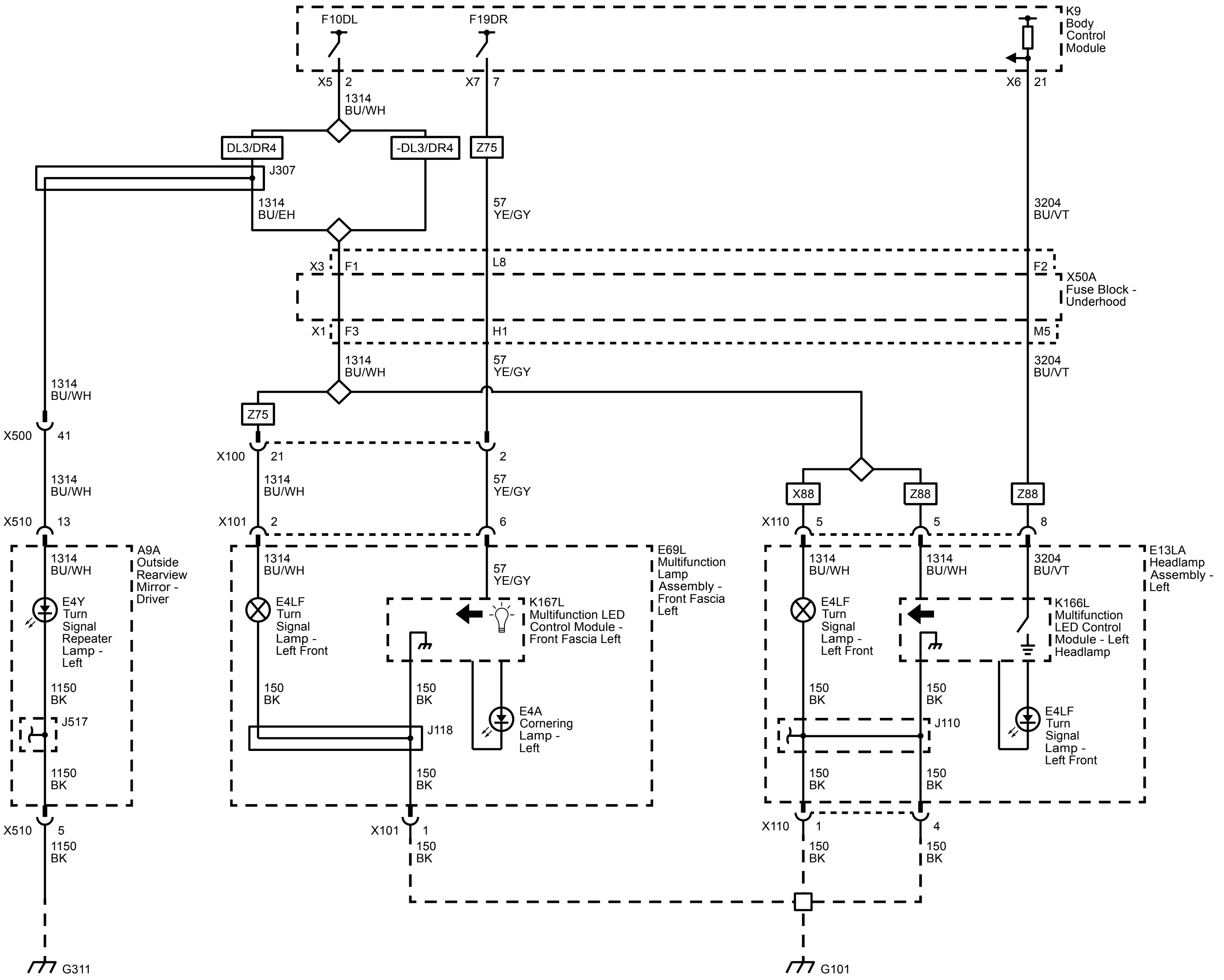
Park Lamps (X88 and Z88)


B+
30
86
KR53 Park Lamps Relay
87
85
X50A Fuse Block - Underhood
F41UA 20A
F43UA 15A
F42UA 15A
X5
J3
X1
G1
H2
X4
J1
L5
X3
G1
X1
H6
F1
2109 GY/BN
Trailer Connector/ Provision Schematics
-Y91
Y91
Y91
-Y91
7538 GY/BU
49 BU
7539 BU/BN
X4
7
X5
22
7
K9 Body Control Module
709 VT/GY
709 VT/GY
7538 GY/BU
7539 BU/BN
309 GY/BN
309 GY/BN
X110
6
7
6
X120
6
7
6
E13LA Headlamp Assembly - Left
709 VT/GY
709 VT/GY
7538 GY/BU
E4J Park Lamp - Left Front
E2LF Side Marker Lamp - Left Front
A90 Logic
E4AC Park/ Daytime Running Lamp - Left
150 BK
150 BK
150 BK
J110
150 BK
150 BK
X110
1
4
150 BK
150 BK
G101
E13RA Headlamp Assembly - Right
7539 BU/BN
309 GY/BN
309 GY/BN
A90 Logic
E4AD Park/ Daytime Running Lamp - Right
E2RF Side Marker Lamp - Right Front
E4K Park Lamp - Right Front
250 BK
250 BK
250 BK
J120
250 BK
250 BK
X120
1
4
250 BK
250 BK
G102

Park Lamps (Z75)

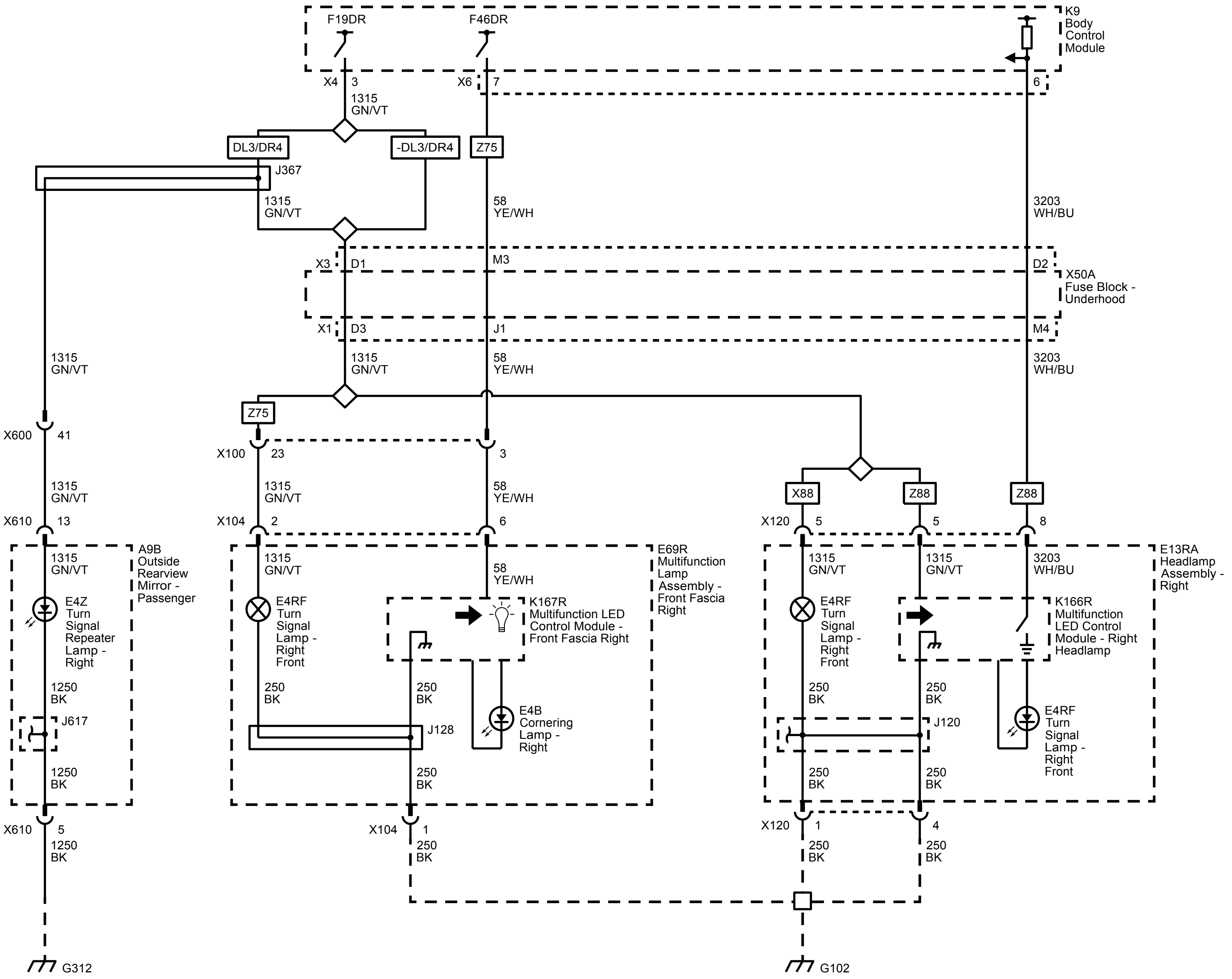

B+
86
30
KR53
Park Lamps
Relay
85
87
X50A
Fuse Block -
Underhood
F41UA
20A
F43UA
15A
F42UA
15A
X4
L5
X5
J3
X1
G1
F1
49
BU
2109
GY/BN
Trailer
Connector/
Provision
Schematics
709
VT/GY
709
VT/GY
309
GY/BN
309
GY/BN
X100
9
24
709
VT/GY
309
GY/BN
X110
7
X101
3
X104
3
X120
7
X5
22
K9
Body
Control
Module
E13LA
Headlamp
Assembly -
Left
709
VT/GY
K166L
Multifunction
LED Control
Module - Left
Headlamp
150
BK
E2LF
Side Marker
Lamp - Left
Front
J110
150
BK
150
BK
E69L
Multifunction
Lamp
Assembly -
Front Fascia
Left
709
VT/GY
K167L
Multifunction LED
Control Module -
Front Fascia Left
150
BK
E4AL
Park/
Daytime
Running
Lamp -
Left Lower
J118
150
BK
E69R
Multifunction
Lamp
Assembly -
Front Fascia
Right
309
GY/BN
K167R
Multifunction LED
Control Module -
Front Fascia Right
250
BK
E4AM
Park/
Daytime
Running
Lamp -
Right Lower
J128
250
BK
E13RA
Headlamp
Assembly -
Right
309
GY/BN
K166R
Multifunction
LED Control
Module - Right
Headlamp
250
BK
E2RF
Side Marker
Lamp - Right
Front
J120
250
BK
250
BK
X110
1
4
150
BK
150
BK
X101
1
150
BK
X104
1
250
BK
X120
1
4
250
BK
250
BK
G101
G102

Left Front Turn Signal Lamps

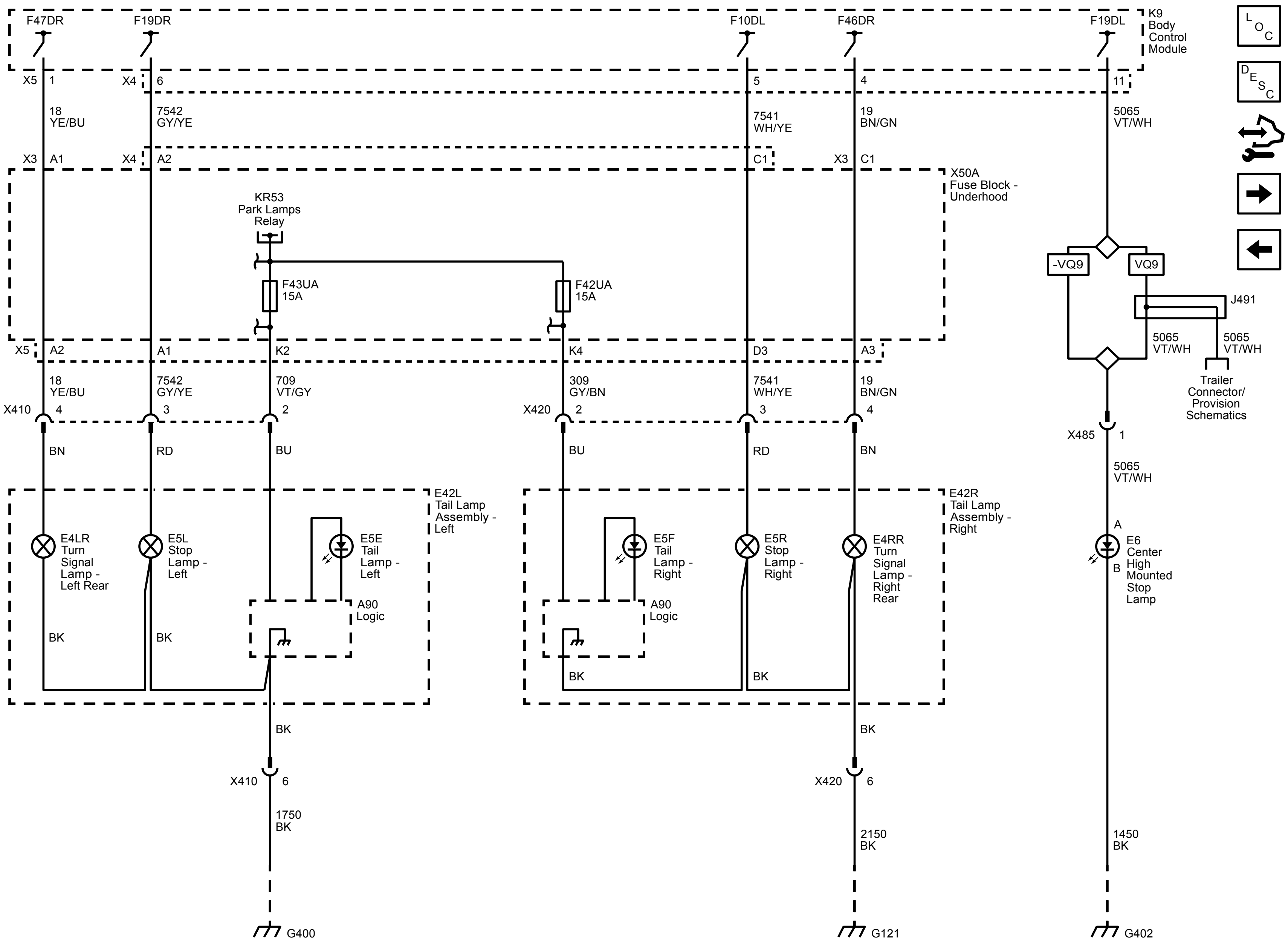


F10DL
F19DR
K9 Body Control Module
X5 2
X7 7
X6 21
1314 BU/WH
DL3/DR4
-DL3/DR4
Z75
J307
1314 BU/EH
57 YE/GY
3204 BU/VT
X3 F1
L8
F2
X50A Fuse Block - Underhood
X1 F3
H1
M5
1314 BU/WH
57 YE/GY
3204 BU/VT
1314 BU/WH
Z75
X500 41
X100 21
2
1314 BU/WH
1314 BU/WH
57 YE/GY
X88
Z88
Z88
X510 13
X101 2
6
X110 5
5
8
A9A Outside Rearview Mirror - Driver
1314 BU/WH
E4Y Turn Signal Repeater Lamp - Left
1150 BK
J517
1150 BK
1314 BU/WH
E4LF Turn Signal Lamp - Left Front
57 YE/GY
K167L Multifunction LED Control Module - Front Fascia Left
E69L Multifunction Lamp Assembly - Front Fascia Left
150 BK
150 BK
E4A Cornering Lamp - Left
J118
150 BK
1314 BU/WH
E4LF Turn Signal Lamp - Left Front
1314 BU/WH
3204 BU/VT
K166L Multifunction LED Control Module - Left Headlamp
E13LA Headlamp Assembly - Left
150 BK
150 BK
J110
E4LF Turn Signal Lamp - Left Front
150 BK
150 BK
X510 5
1150 BK
X101 1
150 BK
X110 1
150 BK
4
150 BK
G311
G101

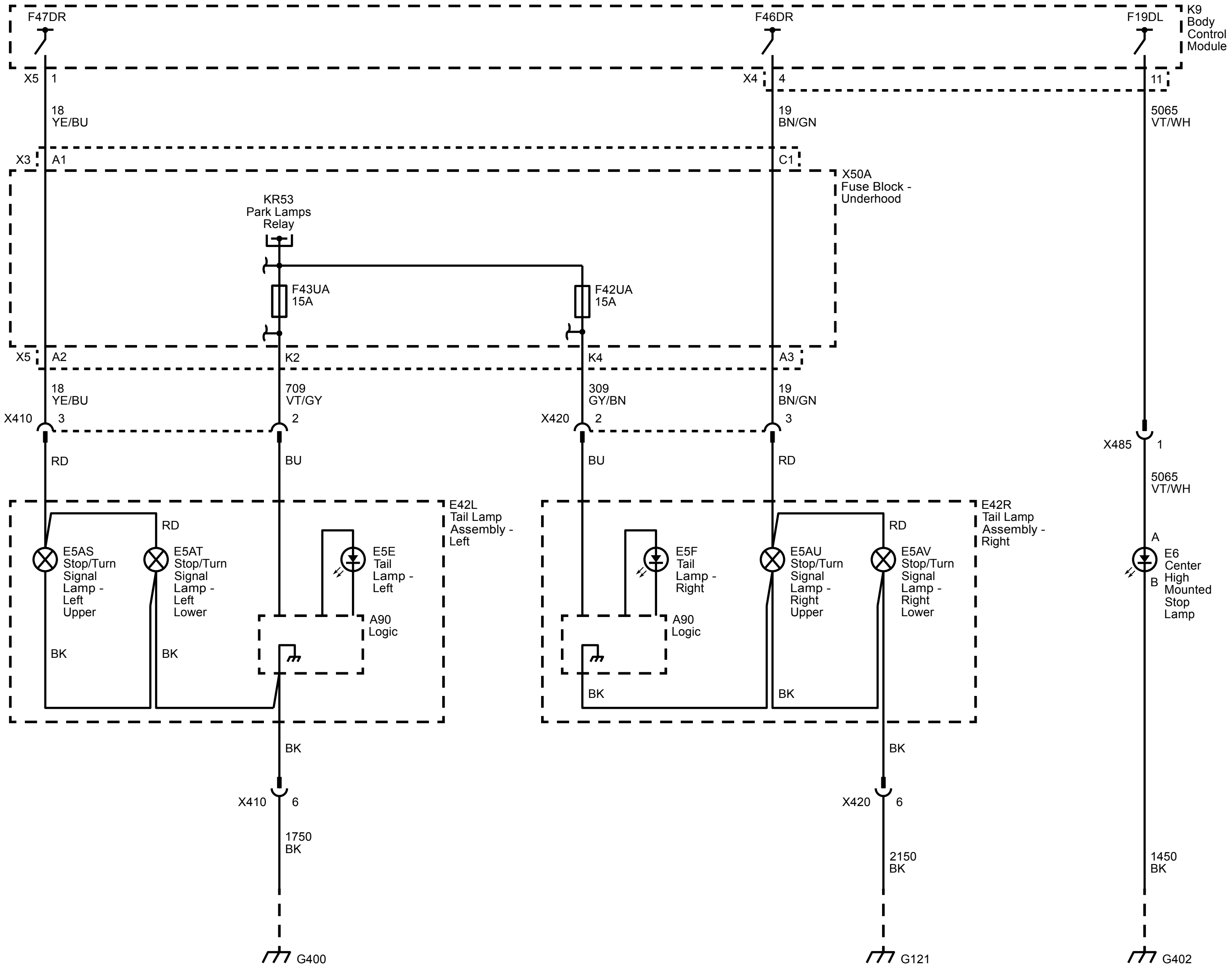
Right Front Turn Signal Lamps


F19DR
F46DR
K9 Body Control Module
X4 3
X6 7
6
1315 GN/VT
DL3/DR4
-DL3/DR4
Z75
J367
1315 GN/VT
58 YE/WH
3203 WH/BU
X3 D1
M3
D2
X50A Fuse Block - Underhood
X1 D3
J1
M4
1315 GN/VT
1315 GN/VT
58 YE/WH
3203 WH/BU
Z75
X600 41
X100 23
3
X88
Z88
Z88
1315 GN/VT
1315 GN/VT
58 YE/WH
X610 13
X104 2
6
X120 5
5
8
A9B Outside Rearview Mirror - Passenger
1315 GN/VT
E4Z Turn Signal Repeater Lamp - Right
1250 BK
J617
1250 BK
E69R Multifunction Lamp Assembly - Front Fascia Right
1315 GN/VT
58 YE/WH
E4RF Turn Signal Lamp - Right Front
K167R Multifunction LED Control Module - Front Fascia Right
250 BK
250 BK
J128
E4B Cornering Lamp - Right
250 BK
E13RA Headlamp Assembly - Right
1315 GN/VT
1315 GN/VT
3203 WH/BU
E4RF Turn Signal Lamp - Right Front
K166R Multifunction LED Control Module - Right Headlamp
250 BK
250 BK
J120
E4RF Turn Signal Lamp - Right Front
250 BK
250 BK
X610 5
1250 BK
X104 1
250 BK
X120 1
4
250 BK
250 BK
G312
G102

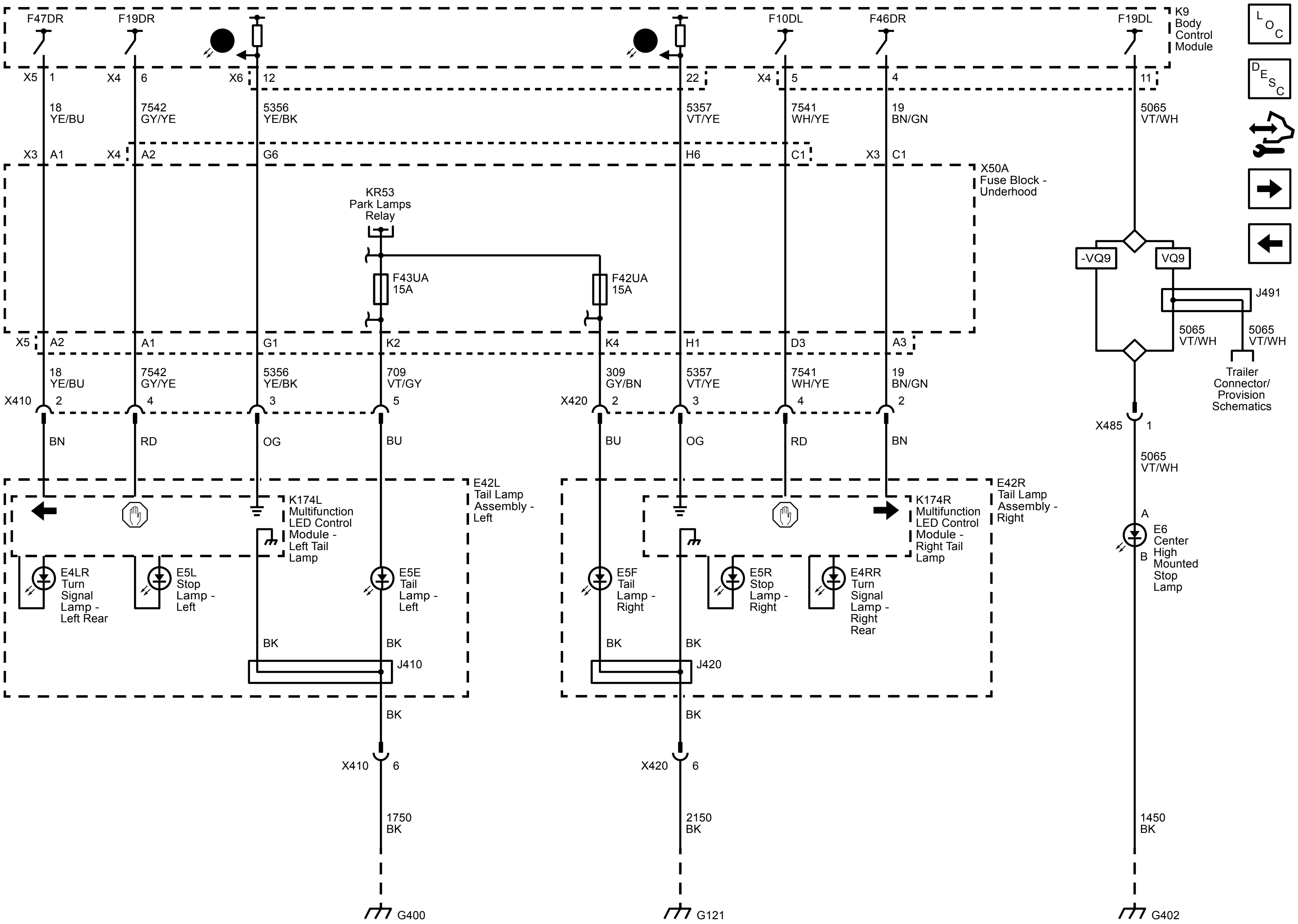
CHMSL and Tail Lamps (X88 with T89)


F47DR
F19DR
F10DL
F46DR
F19DL
K9
Body
Control
Module
X5
1
X4
6
5
4
11
18
YE/BU
7542
GY/YE
7541
WH/YE
19
BN/GN
5065
VT/WH
X3
A1
X4
A2
C1
X3
C1
X50A
Fuse Block -
Underhood
KR53
Park Lamps
Relay
F43UA
15A
F42UA
15A
-VQ9
VQ9
J491
5065
VT/WH
5065
VT/WH
Trailer
Connector/
Provision
Schematics
X5
A2
A1
K2
K4
D3
A3
18
YE/BU
7542
GY/YE
709
VT/GY
309
GY/BN
7541
WH/YE
19
BN/GN
X410
4
3
2
X420
2
3
4
X485
1
BN
RD
BU
BU
RD
BN
5065
VT/WH
E42L
Tail Lamp
Assembly -
Left
E42R
Tail Lamp
Assembly -
Right
E4LR
Turn
Signal
Lamp -
Left Rear
E5L
Stop
Lamp -
Left
E5E
Tail
Lamp -
Left
A90
Logic
E5F
Tail
Lamp -
Right
A90
Logic
E5R
Stop
Lamp -
Right
E4RR
Turn
Signal
Lamp -
Right
Rear
A
B
E6
Center
High
Mounted
Stop
Lamp
BK
BK
BK
BK
BK
BK
X410
6
1750
BK
X420
6
2150
BK
1450
BK
G400
G121
G402
L O C
D E S C

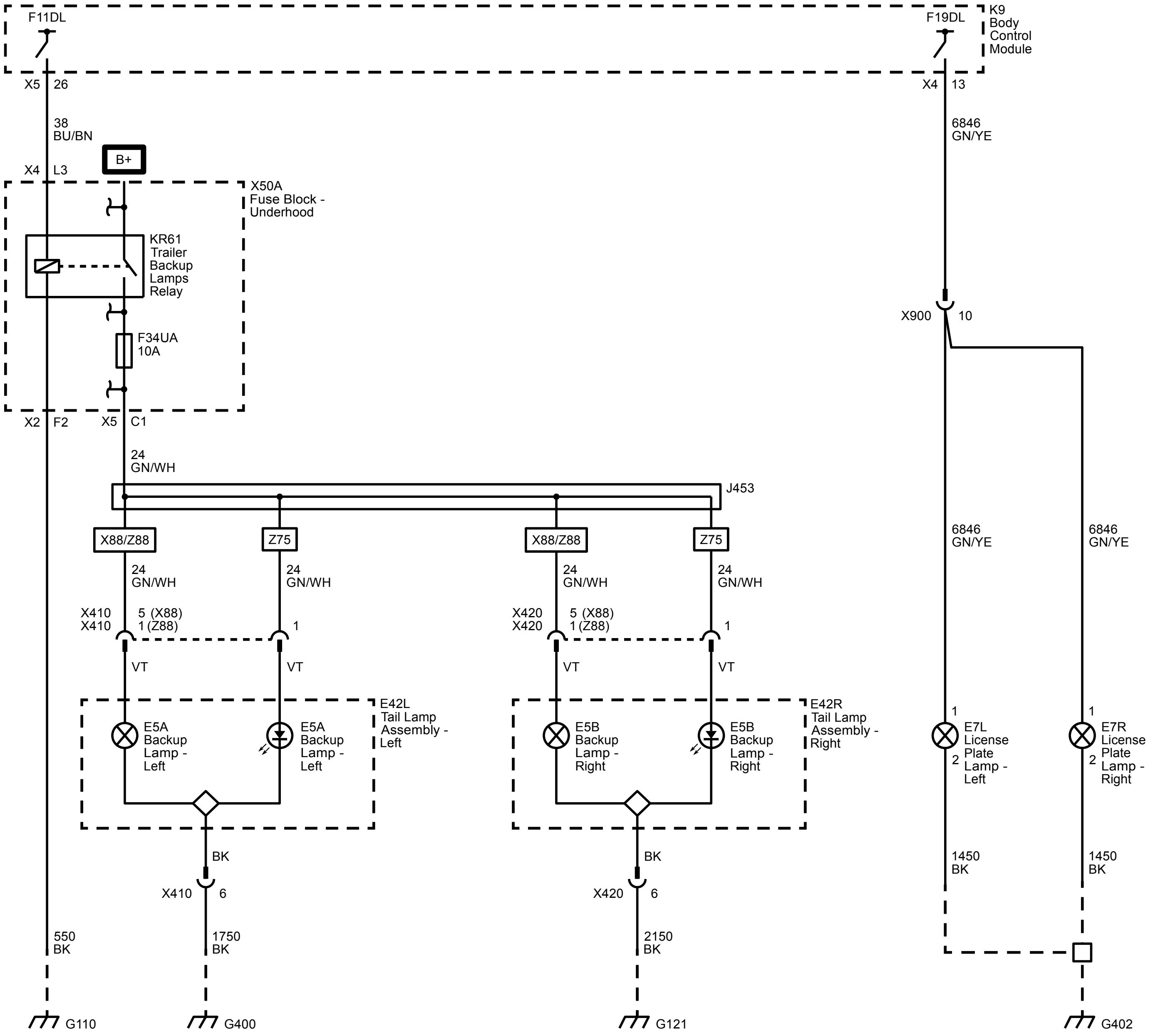
CHMSL and Tail Lamps (X88 without T89)


F47DR
F46DR
F19DL
K9
Body
Control
Module
X5
1
X4
4
11
18
YE/BU
19
BN/GN
5065
VT/WH
X3
A1
C1
X50A
Fuse Block -
Underhood
KR53
Park Lamps
Relay
F43UA
15A
F42UA
15A
X5
A2
K2
K4
A3
18
YE/BU
709
VT/GY
309
GY/BN
19
BN/GN
X410
3
2
X420
2
3
X485
1
RD
BU
BU
RD
5065
VT/WH
E42L
Tail Lamp
Assembly -
Left
RD
E5AS
Stop/Turn
Signal
Lamp -
Left
Upper
E5AT
Stop/Turn
Signal
Lamp -
Left
Lower
E5E
Tail
Lamp -
Left
A90
Logic
BK
BK
E42R
Tail Lamp
Assembly -
Right
RD
E5F
Tail
Lamp -
Right
E5AU
Stop/Turn
Signal
Lamp -
Right
Upper
E5AV
Stop/Turn
Signal
Lamp -
Right
Lower
A90
Logic
BK
BK
A
E6
Center
High
Mounted
Stop
Lamp
B
BK
BK
X410
6
1750
BK
X420
6
2150
BK
1450
BK
G400
G121
G402

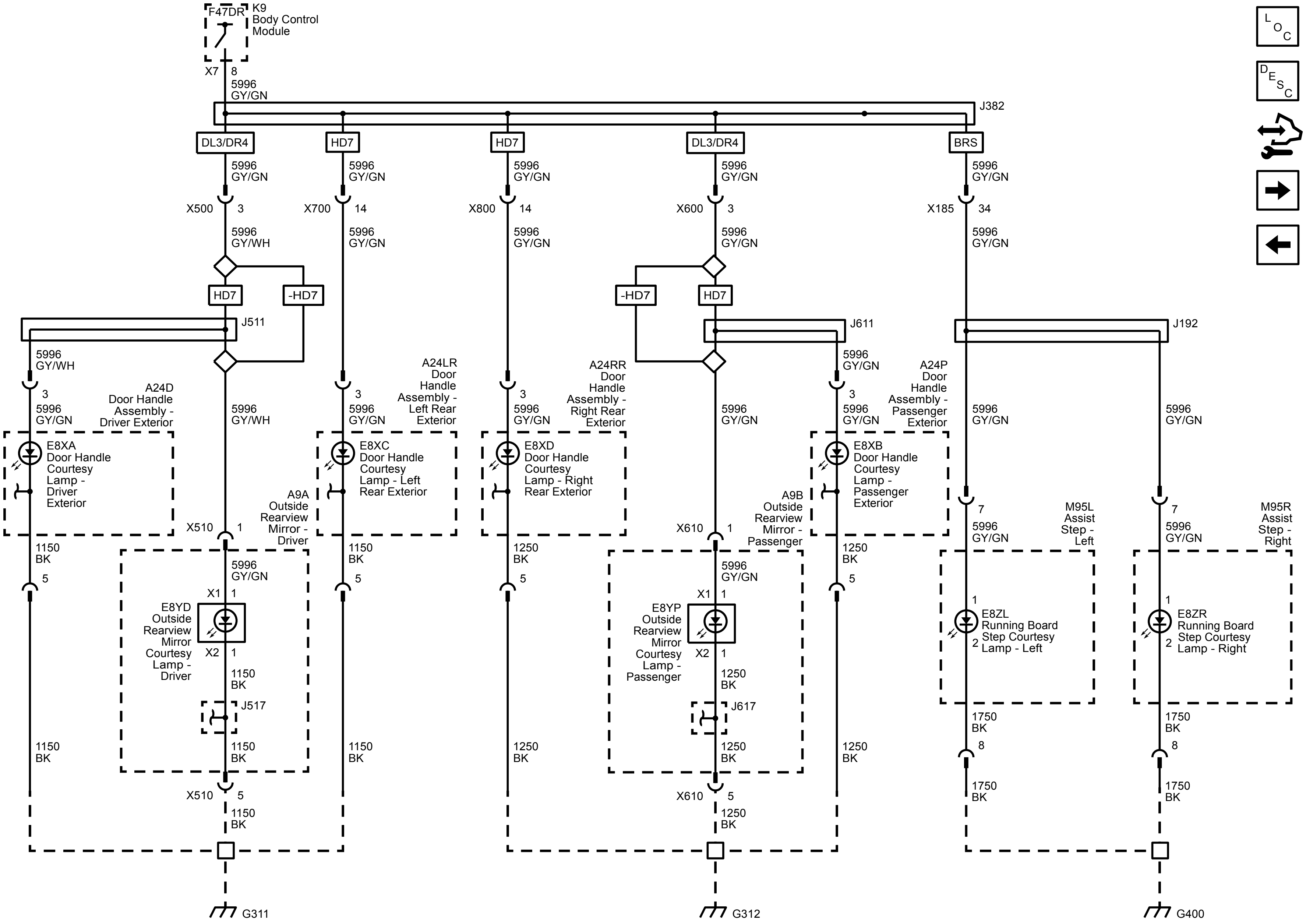
CHMSL and Tail Lamps (Z75 and Z88)


F47DR
F19DR
F10DL
F46DR
F19DL
K9
Body
Control
Module
X5 1
X4 6
X6 12
22
X4 5
4
11
18
YE/BU
7542
GY/YE
5356
YE/BK
5357
VT/YE
7541
WH/YE
19
BN/GN
5065
VT/WH
X3 A1
X4 A2
G6
H6
C1
X3 C1
X50A
Fuse Block -
Underhood
KR53
Park Lamps
Relay
F43UA
15A
F42UA
15A
-VQ9
VQ9
J491
5065
VT/WH
5065
VT/WH
Trailer
Connector/
Provision
Schematics
X5 A2
A1
G1
K2
K4
H1
D3
A3
18
YE/BU
7542
GY/YE
5356
YE/BK
709
VT/GY
309
GY/BN
5357
VT/YE
7541
WH/YE
19
BN/GN
X410 2
4
3
5
X420 2
3
4
2
X485 1
BN
RD
OG
BU
BU
OG
RD
BN
5065
VT/WH
E42L
Tail Lamp
Assembly -
Left
K174L
Multifunction
LED Control
Module -
Left Tail
Lamp
E4LR
Turn
Signal
Lamp -
Left Rear
E5L
Stop
Lamp -
Left
E5E
Tail
Lamp -
Left
BK
BK
J410
E42R
Tail Lamp
Assembly -
Right
K174R
Multifunction
LED Control
Module -
Right Tail
Lamp
E5F
Tail
Lamp -
Right
E5R
Stop
Lamp -
Right
E4RR
Turn
Signal
Lamp -
Right
Rear
BK
BK
J420
A
E6
Center
High
Mounted
Stop
Lamp
B
BK
BK
X410 6
X420 6
1750
BK
2150
BK
1450
BK
G400
G121
G402
L O C
D E S C

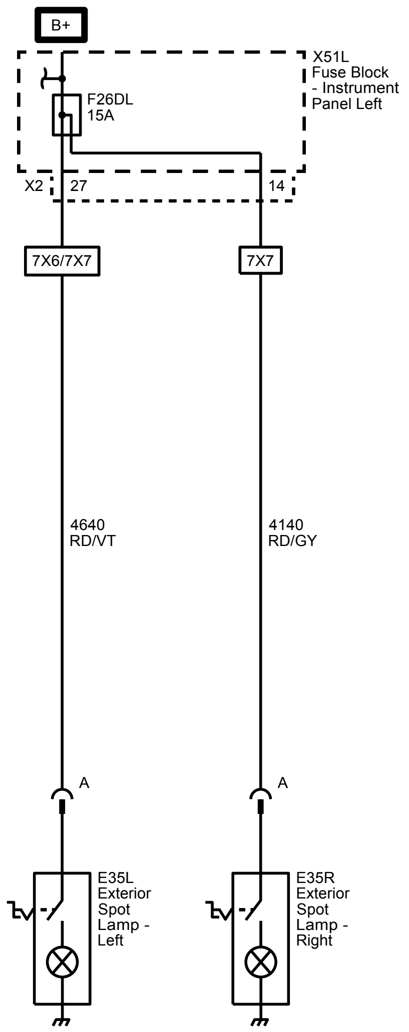
Backup and License Plate Lamps


F11DL
F19DL
K9
Body
Control
Module
X5 26
X4 13
38
BU/BN
B+
X4 L3
X50A
Fuse Block -
Underhood
KR61
Trailer
Backup
Lamps
Relay
F34UA
10A
X2 F2
X5 C1
24
GN/WH
6846
GN/YE
X900 10
J453
X88/Z88
Z75
X88/Z88
Z75
24
GN/WH
24
GN/WH
24
GN/WH
24
GN/WH
6846
GN/YE
6846
GN/YE
X410
X410
5 (X88)
1 (Z88)
1
X420
X420
5 (X88)
1 (Z88)
1
VT
VT
VT
VT
E42L
Tail Lamp
Assembly -
Left
E5A
Backup
Lamp -
Left
E5A
Backup
Lamp -
Left
E42R
Tail Lamp
Assembly -
Right
E5B
Backup
Lamp -
Right
E5B
Backup
Lamp -
Right
1
E7L
License
Plate
2
Lamp -
Left
1
E7R
License
Plate
2
Lamp -
Right
BK
X410 6
BK
X420 6
1450
BK
1450
BK
550
BK
1750
BK
2150
BK
G110
G400
G121
G402

Courtesy Lamps

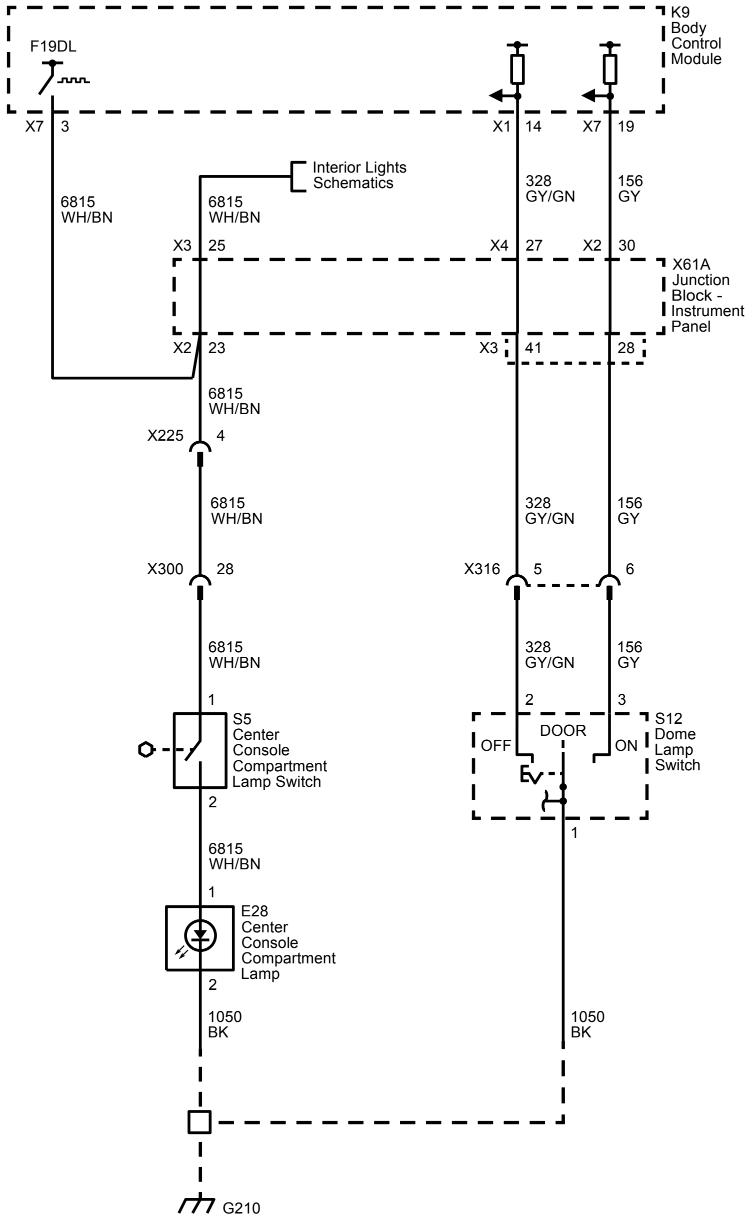

F47DR
K9
Body Control
Module
X7
8
5996
GY/GN
J382
DL3/DR4
HD7
HD7
DL3/DR4
BRS
X500
3
5996
GY/WH
X700
14
X800
14
X600
3
X185
34
5996
GY/GN
HD7
-HD7
-HD7
HD7
J511
J611
J192
A24D
Door Handle
Assembly -
Driver Exterior
E8XA
Door Handle
Courtesy
Lamp -
Driver
Exterior
A24LR
Door
Handle
Assembly -
Left Rear
Exterior
E8XC
Door Handle
Courtesy
Lamp - Left
Rear Exterior
A24RR
Door
Handle
Assembly -
Right Rear
Exterior
E8XD
Door Handle
Courtesy
Lamp - Right
Rear Exterior
A24P
Door
Handle
Assembly -
Passenger
Exterior
E8XB
Door Handle
Courtesy
Lamp -
Passenger
Exterior
A9A
Outside
Rearview
Mirror -
Driver
X510
1
E8YD
Outside
Rearview
Mirror
Courtesy
Lamp -
Driver
X1 1
X2 1
J517
A9B
Outside
Rearview
Mirror -
Passenger
X610
1
E8YP
Outside
Rearview
Mirror
Courtesy
Lamp -
Passenger
J617
M95L
Assist
Step -
Left
E8ZL
Running Board
Step Courtesy
Lamp - Left
M95R
Assist
Step -
Right
E8ZR
Running Board
Step Courtesy
Lamp - Right
1150
BK
1250
BK
1750
BK
5
7
8
X510 5
X610 5
G311
G312
G400

Spot Light (7X6 and 7X7)

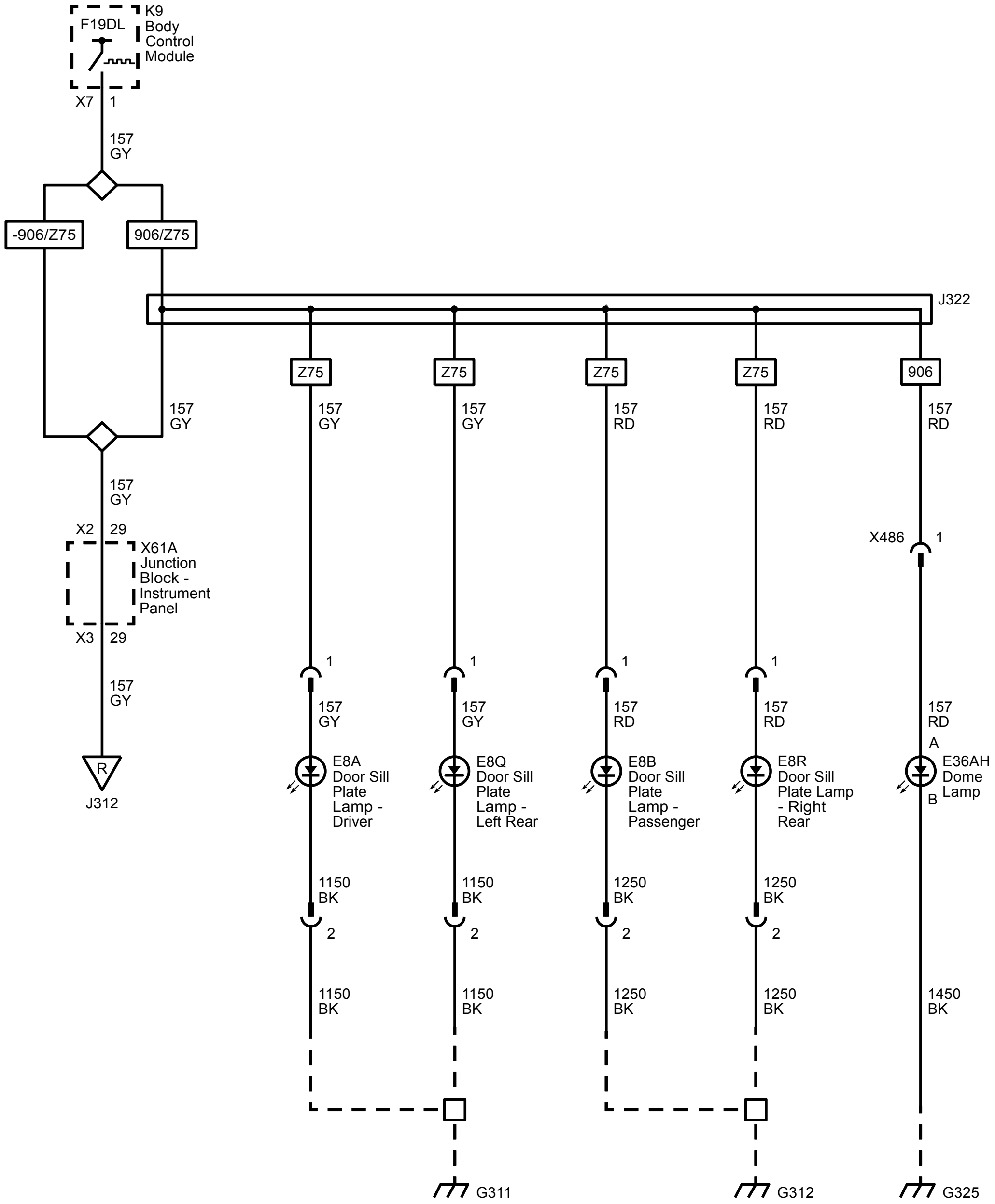

B+
X51L
Fuse Block
- Instrument
Panel Left
F26DL
15A
X2
27
14
7X6/7X7
7X7
4640
RD/VT
4140
RD/GY
A
A
E35L
Exterior
Spot
Lamp -
Left
E35R
Exterior
Spot
Lamp -
Right

Interior Lights Schematics

Controls and Center Console Compartment Lamp


K9
Body
Control
Module
F19DL
X7 3
X1 14
X7 19
6815
WH/BN
Interior Lights
Schematics
6815
WH/BN
328
GY/GN
156
GY
X3 25
X4 27
X2 30
X61A
Junction
Block -
Instrument
Panel
X2 23
X3 41
28
6815
WH/BN
X225 4
6815
WH/BN
328
GY/GN
156
GY
X300 28
X316 5
6
6815
WH/BN
328
GY/GN
156
GY
1
S5
Center
Console
Compartment
Lamp Switch
2
2
3
OFF
DOOR
ON
S12
Dome
Lamp
Switch
1
6815
WH/BN
1
E28
Center
Console
Compartment
Lamp
2
1050
BK
1050
BK
G210

Door Sill and D-Pillar Dome Lamps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K9
Body
Control
Module
X7
1
157
GY
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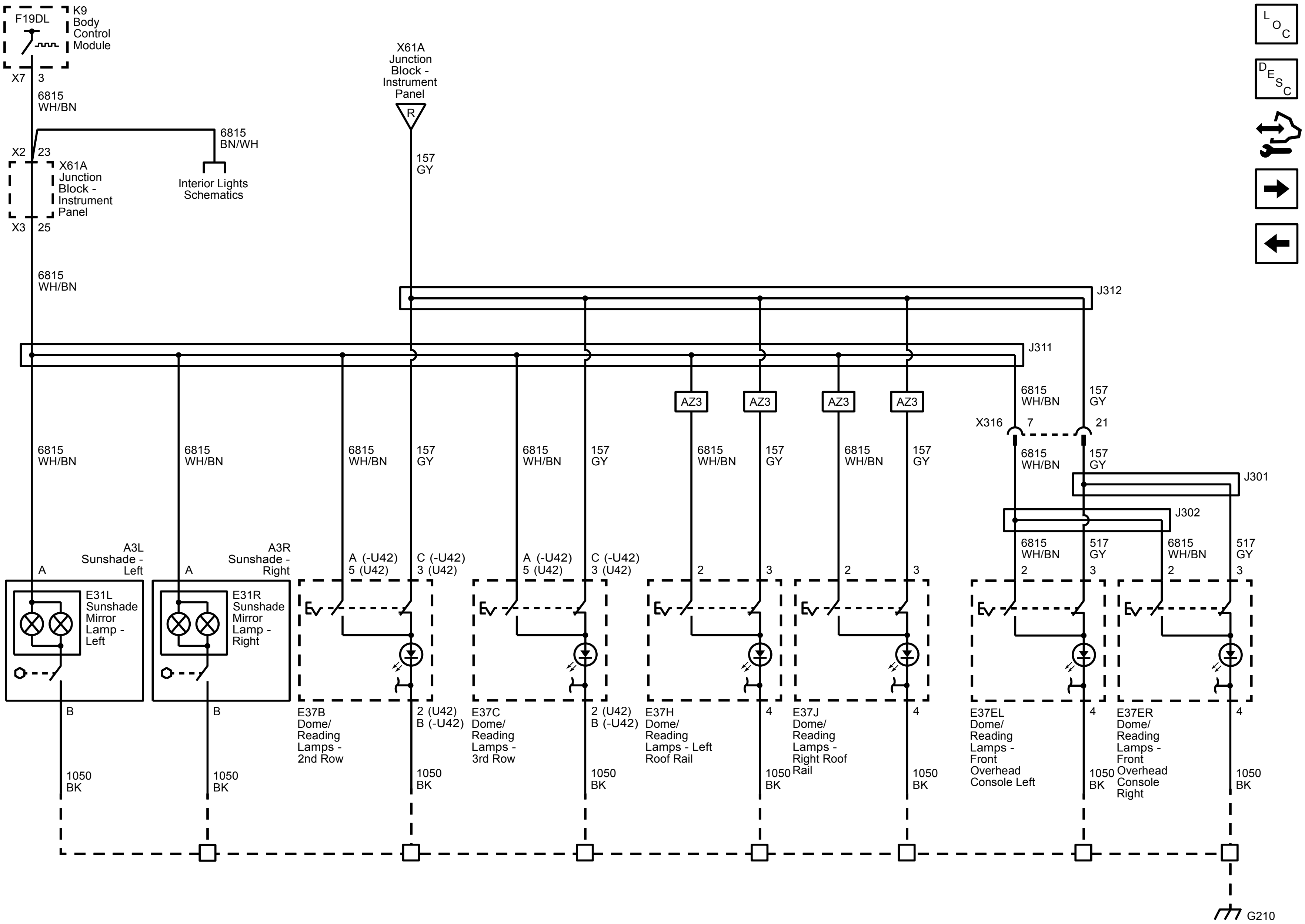
906/Z75
J322
Z75
Z75
Z75
Z75
906
157
GY
157
GY
157
GY
157
RD
157
RD
157
RD
157
GY
X2
29
X61A
Junction
Block -
Instrument
Panel
X3
29
157
GY
R
J312
X486
1
1
1
1
1
157
GY
157
GY
157
RD
157
RD
157
RD
A
E8A
Door Sill
Plate
Lamp -
Driver
E8Q
Door Sill
Plate
Lamp -
Left Rear
E8B
Door Sill
Plate
Lamp -
Passenger
E8R
Door Sill
Plate Lamp
- Right
Rear
E36AH
Dome
Lamp
B
1150
BK
1150
BK
1250
BK
1250
BK
2
2
2
2
1150
BK
1150
BK
1250
BK
1250
BK
1450
BK
G311
G312
G325

Overhead Lamps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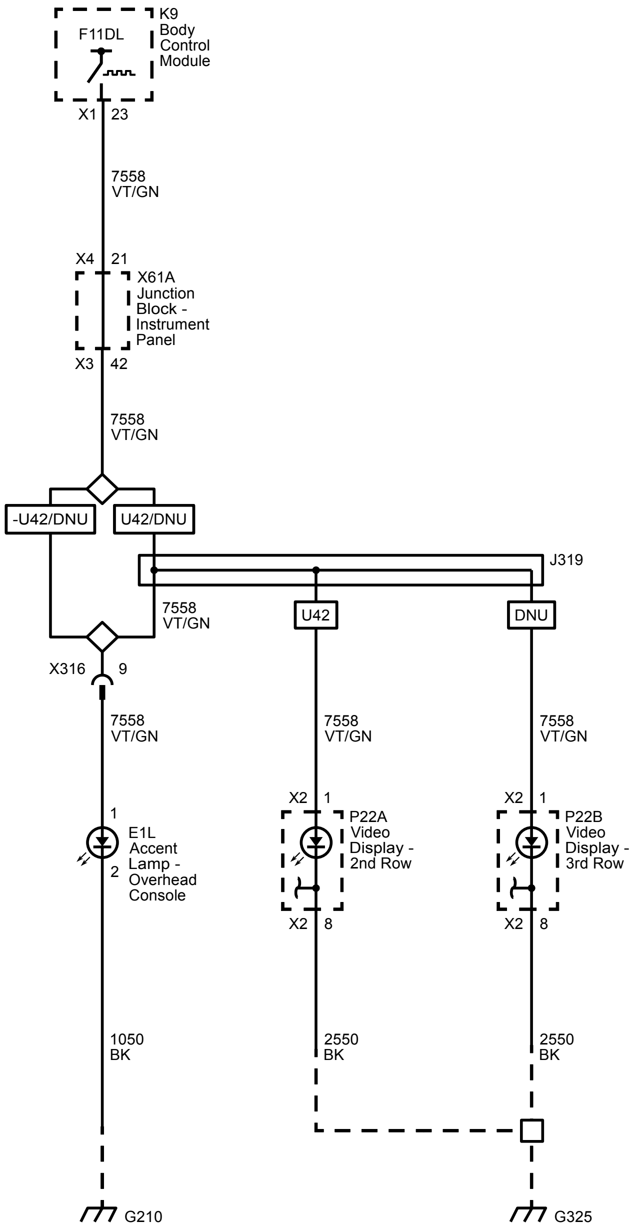
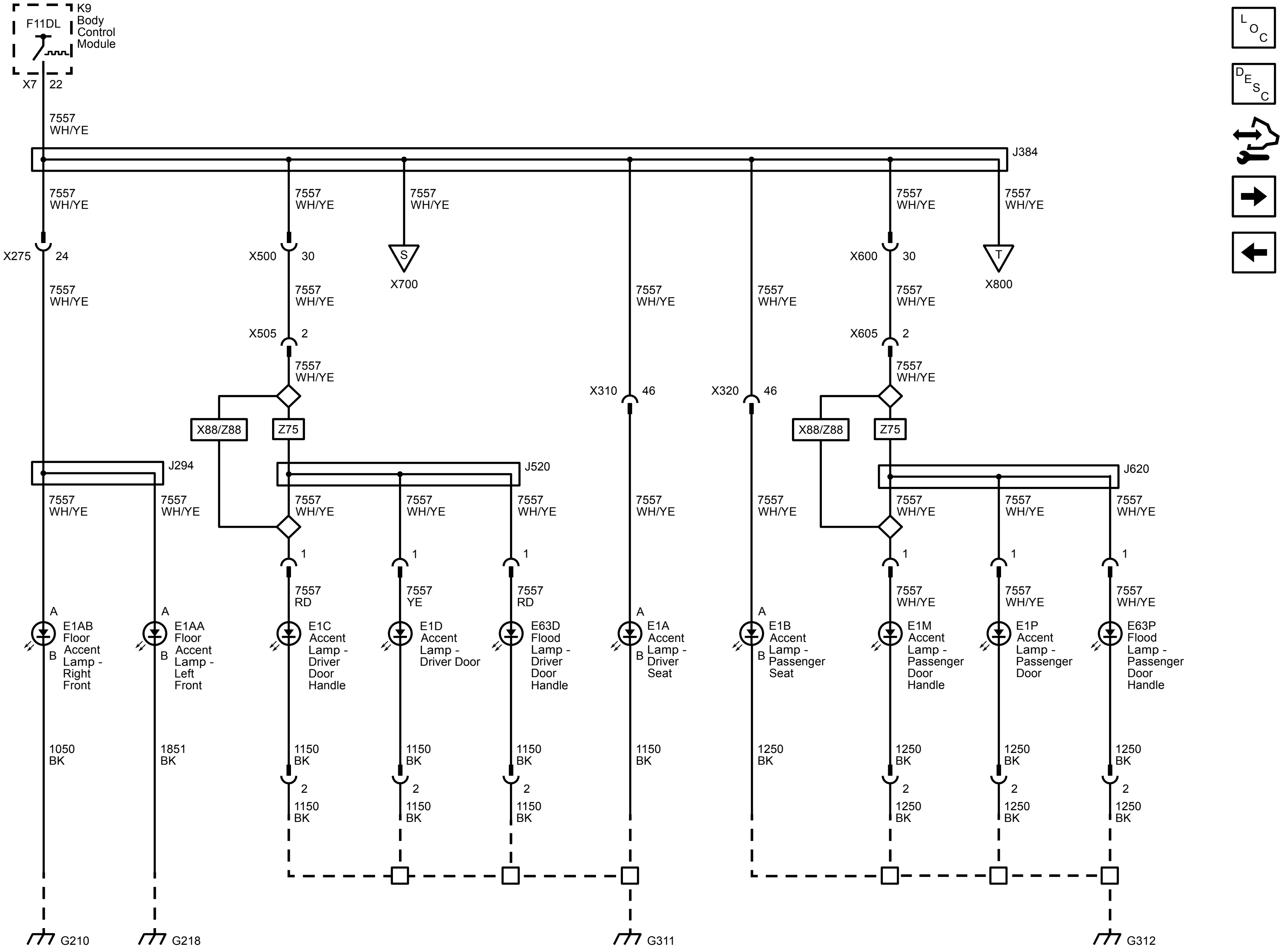
K9 Body Control Module
X7 3
6815 WH/BN
6815 BN/WH
Interior Lights Schematics
X2 23
X61A Junction Block - Instrument Panel
X3 25
6815 WH/BN
X61A Junction Block - Instrument Panel
R
157 GY
J312
J311
AZ3
AZ3
AZ3
AZ3
6815 WH/BN
157 GY
X316 7
21
6815 WH/BN
157 GY
J301
J302
6815 WH/BN
517 GY
6815 WH/BN
517 GY
A3L Sunshade - Left
A3R Sunshade - Right
A
A
A (-U42) 5 (U42)
C (-U42) 3 (U42)
A (-U42) 5 (U42)
C (-U42) 3 (U42)
2
3
2
3
2
3
2
3
E31L Sunshade Mirror Lamp - Left
E31R Sunshade Mirror Lamp - Right
B
B
E37B Dome/ Reading Lamps - 2nd Row
2 (U42) B (-U42)
E37C Dome/ Reading Lamps - 3rd Row
2 (U42) B (-U42)
E37H Dome/ Reading Lamps - Left Roof Rail
4
E37J Dome/ Reading Lamps - Right Roof Rail
4
E37EL Dome/ Reading Lamps - Front Overhead Console Left
4
E37ER Dome/ Reading Lamps - Front Overhead Console Right
4
1050 BK
G210

Accent and Flood Lamps - Overhead Console and Video Displays (U42 and DNU)


K9
Body
Control
Module
F11DL
X1 23
7558
VT/GN
X4 21
X61A
Junction
Block -
Instrument
Panel
X3 42
7558
VT/GN
-U42/DNU
U42/DNU
J319
7558
VT/GN
U42
DNU
X316 9
7558
VT/GN
7558
VT/GN
7558
VT/GN
1
E1L
Accent
Lamp -
Overhead
Console
2
X2 1
P22A
Video
Display -
2nd Row
X2 8
X2 1
P22B
Video
Display -
3rd Row
X2 8
1050
BK
2550
BK
2550
BK
G210
G325

Accent and Flood Lamps - Seats and Front Doors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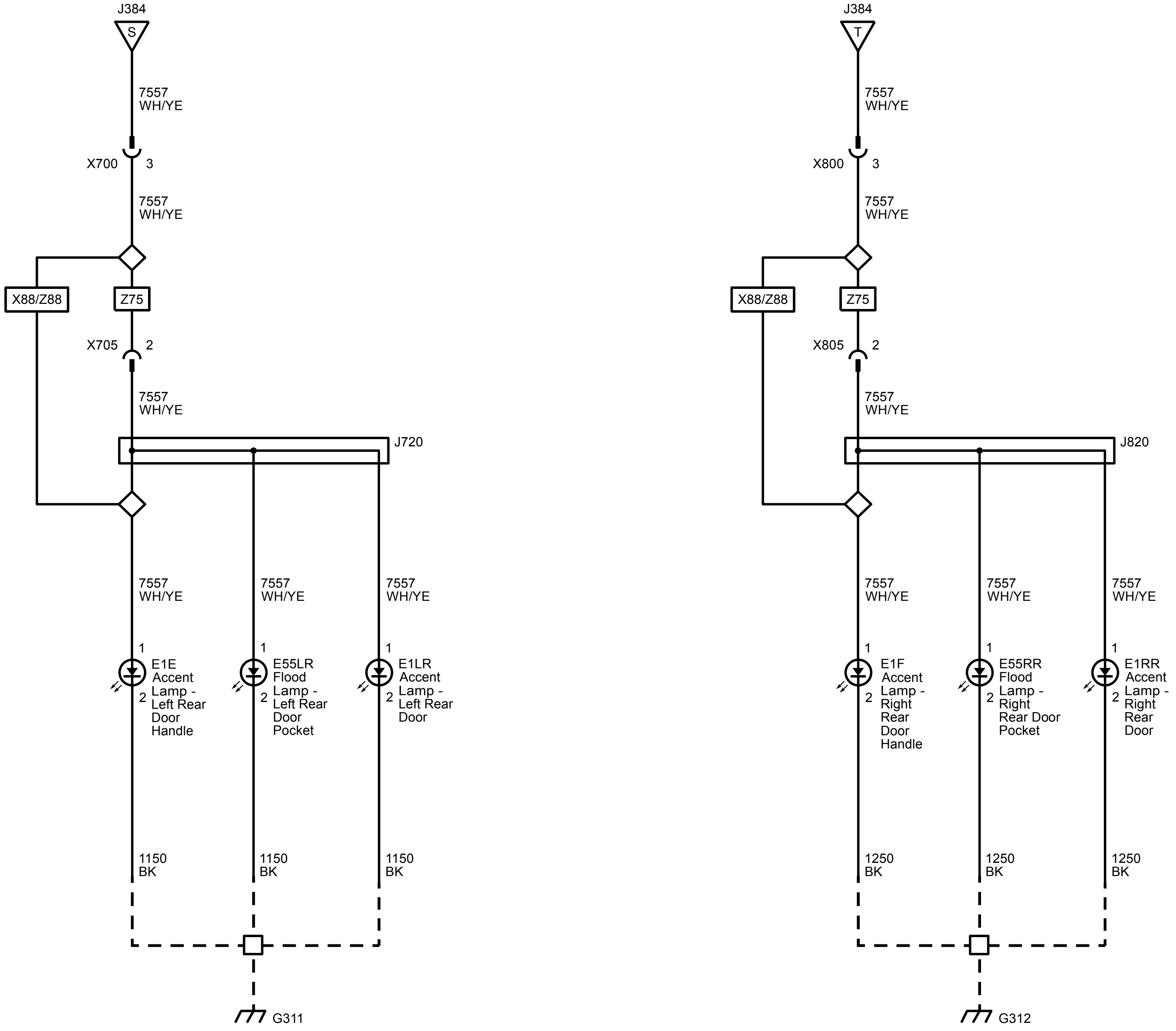
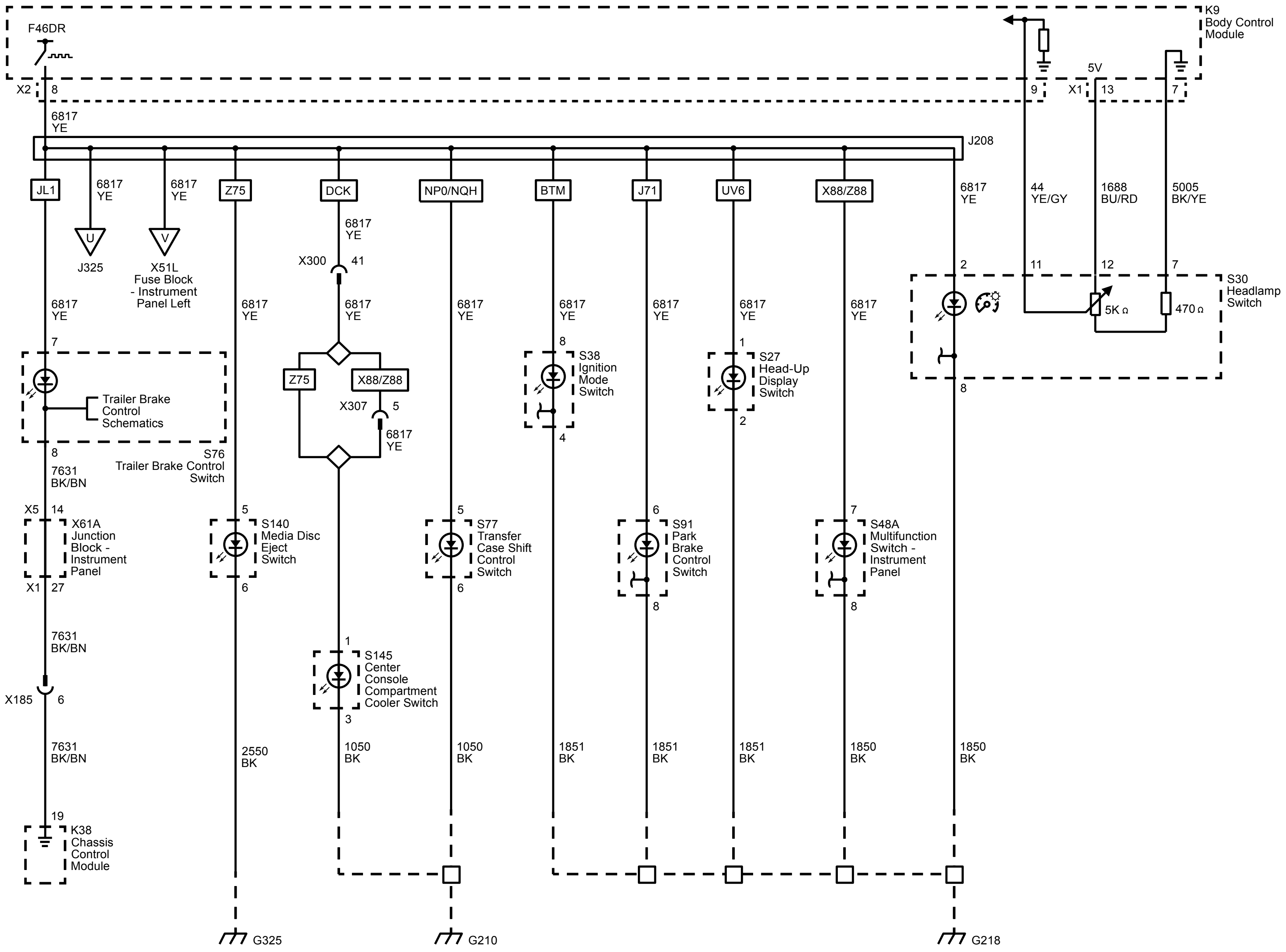
F11DL
X7 22
7557 WH/YE
J384
X275 24
X500 30
X700
X600 30
X800
S
T
X505 2
X605 2
X310 46
X320 46
X88/Z88
Z75
J294
J520
J620
1
A
B
E1AB Floor Accent Lamp - Right Front
E1AA Floor Accent Lamp - Left Front
7557 RD
7557 YE
E1C Accent Lamp - Driver Door Handle
E1D Accent Lamp - Driver Door
E63D Flood Lamp - Driver Door Handle
E1A Accent Lamp - Driver Seat
E1B Accent Lamp - Passenger Seat
E1M Accent Lamp - Passenger Door Handle
E1P Accent Lamp - Passenger Door
E63P Flood Lamp - Passenger Door Handle
1050 BK
1851 BK
1150 BK
1250 BK
2
G210
G218
G311
G312
L O C
D E S C

Accent and Flood Lamps - Rear Doors


J384
S
7557
WH/YE
X700
3
7557
WH/YE
X88/Z88
Z75
X705
2
7557
WH/YE
J720
7557
WH/YE
7557
WH/YE
7557
WH/YE
1
E1E
Accent
Lamp -
Left Rear
Door
Handle
2
1
E55LR
Flood
Lamp -
Left Rear
Door
Pocket
2
1
E1LR
Accent
Lamp -
Left Rear
Door
2
1150
BK
1150
BK
1150
BK
G311
J384
T
7557
WH/YE
X800
3
7557
WH/YE
X88/Z88
Z75
X805
2
7557
WH/YE
J820
7557
WH/YE
7557
WH/YE
7557
WH/YE
1
E1F
Accent
Lamp -
Right
Rear
Door
Handle
2
1
E55RR
Flood
Lamp -
Right
Rear Door
Pocket
2
1
E1RR
Accent
Lamp -
Right
Rear
Door
2
1250
BK
1250
BK
1250
BK
G312

Interior Lights Dimming Schematics

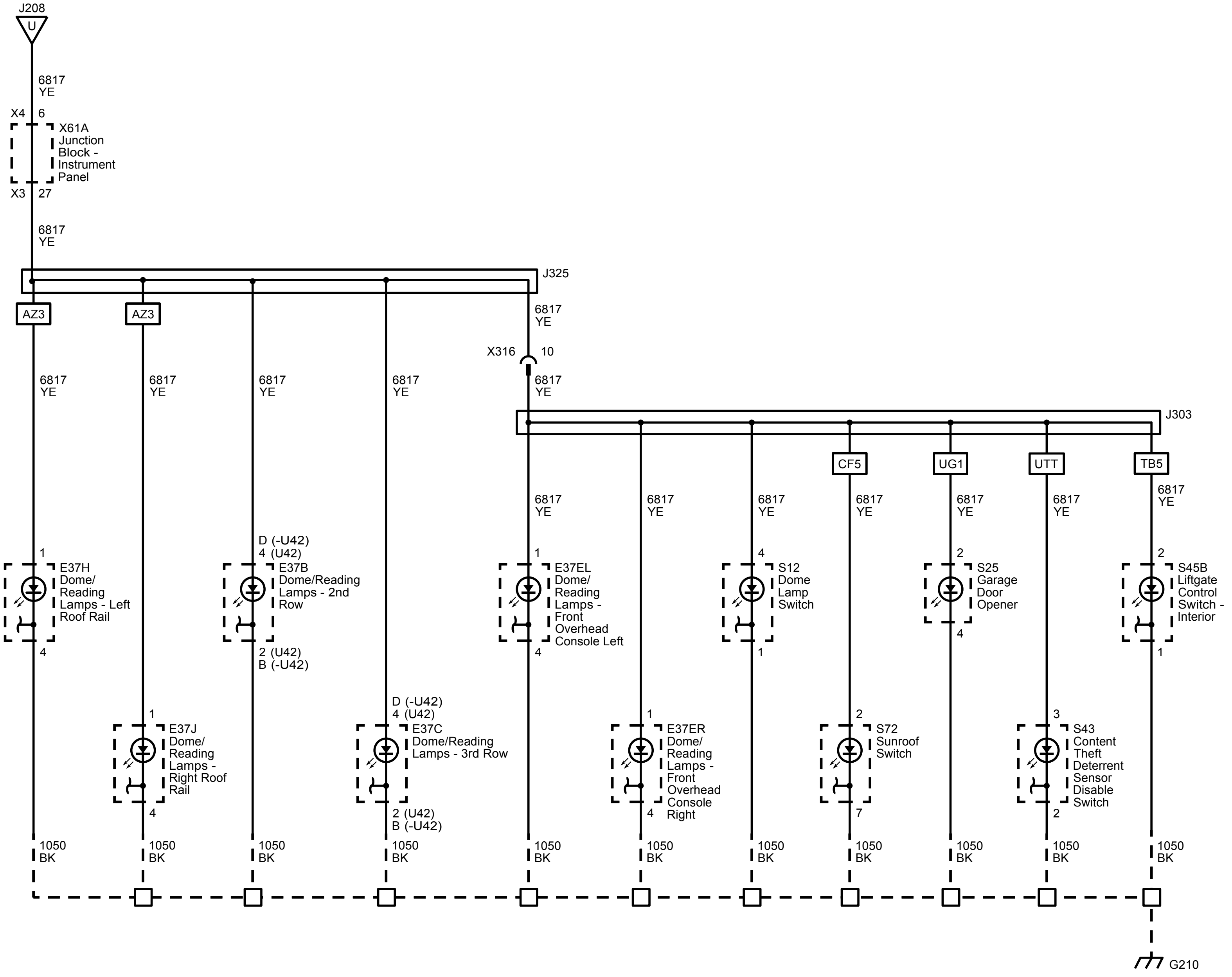
Instrument Panel and Floor Console Dimming



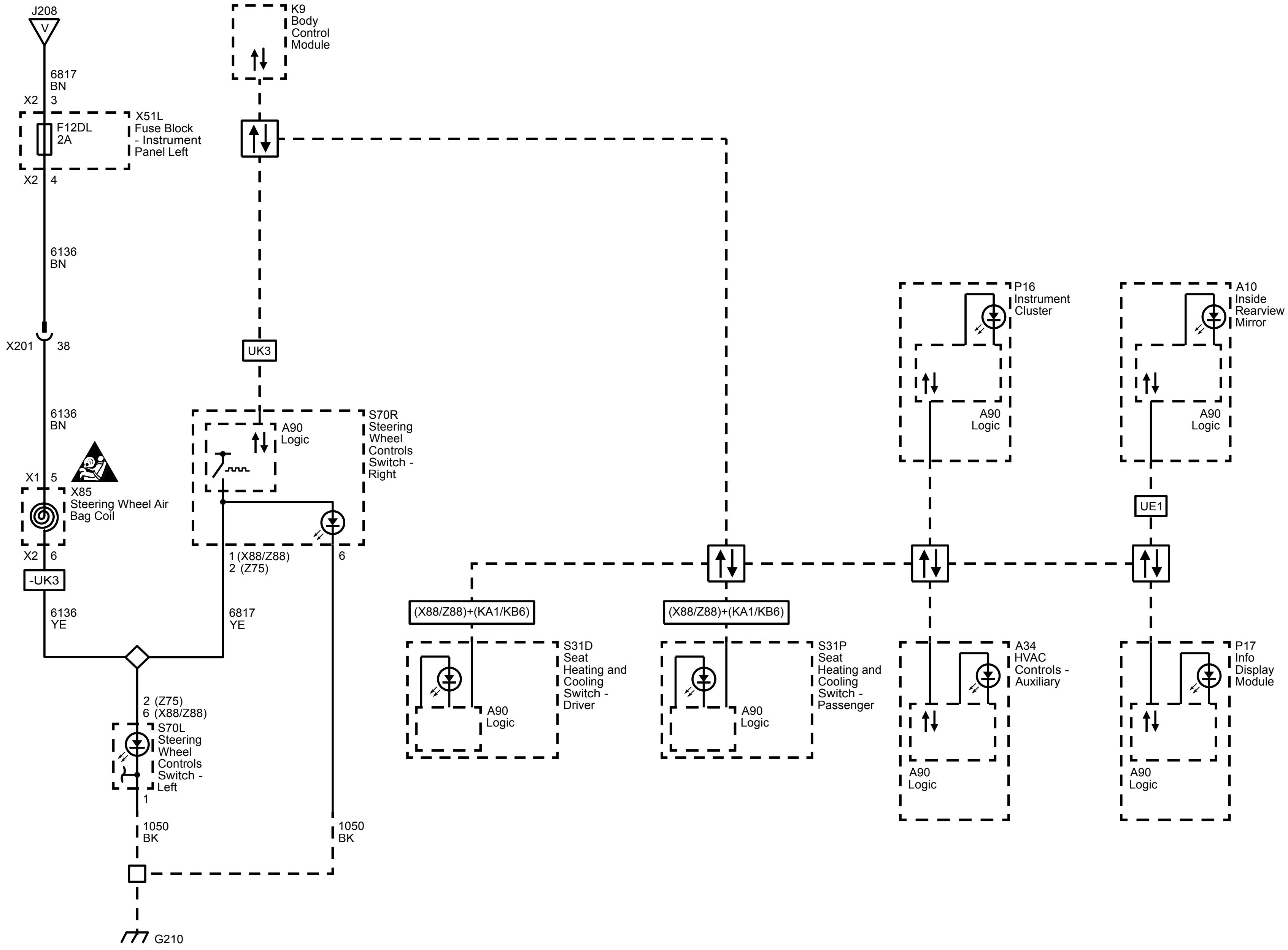
F46DR
K9
Body Control
Module
X2
8
6817
YE
9
X1
13
7
5V
J208
JL1
6817
YE
6817
YE
Z75
DCK
NP0/NQH
BTM
J71
UV6
X88/Z88
6817
YE
44
YE/GY
1688
BU/RD
5005
BK/YE
U
V
J325
X51L
Fuse Block
- Instrument
Panel Left
6817
YE
X300
41
6817
YE
2
11
12
7
S30
Headlamp
Switch
5K Ω
470 Ω
8
6817
YE
6817
YE
6817
YE
6817
YE
6817
YE
6817
YE
6817
YE
6817
YE
7
Trailer Brake
Control
Schematics
8
S76
Trailer Brake Control
Switch
Z75
X88/Z88
X307
5
6817
YE
8
S38
Ignition
Mode
Switch
4
1
S27
Head-Up
Display
Switch
2
7631
BK/BN
X5
14
X61A
Junction
Block -
Instrument
Panel
X1
27
5
S140
Media Disc
Eject
Switch
6
5
S77
Transfer
Case Shift
Control
Switch
6
6
S91
Park
Brake
Control
Switch
8
7
S48A
Multifunction
Switch -
Instrument
Panel
8
7631
BK/BN
1
S145
Center
Console
Compartment
Cooler Switch
3
X185
6
7631
BK/BN
2550
BK
1050
BK
1050
BK
1851
BK
1851
BK
1851
BK
1850
BK
1850
BK
19
K38
Chassis
Control
Module
G325
G210
G218

Headliner and Overhead Console Dimming

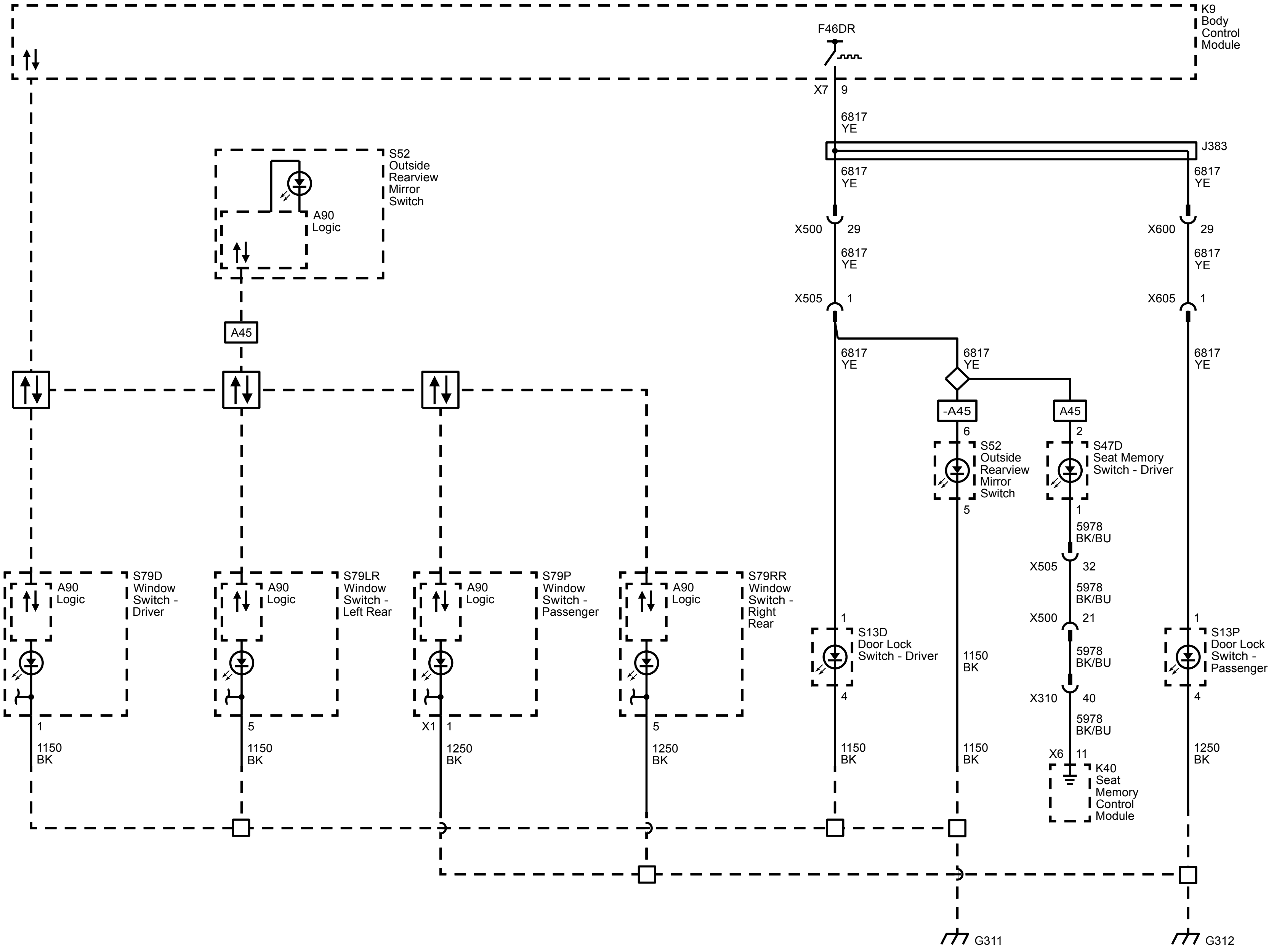
LOC
DESC


J208
U
6817
YE
X4 6
X61A
Junction
Block -
Instrument
Panel
X3 27
6817
YE
J325
AZ3
AZ3
6817
YE
X316 10
6817
YE
6817
YE
6817
YE
6817
YE
6817
YE
J303
CF5
UG1
UTT
TB5
6817
YE
6817
YE
6817
YE
6817
YE
6817
YE
6817
YE
6817
YE
1
E37H
Dome/
Reading
Lamps - Left
Roof Rail
4
D (-U42)
4 (U42)
E37B
Dome/Reading
Lamps - 2nd
Row
2 (U42)
B (-U42)
1
E37EL
Dome/
Reading
Lamps -
Front
Overhead
Console Left
4
4
S12
Dome
Lamp
Switch
1
2
S25
Garage
Door
Opener
4
2
S45B
Liftgate
Control
Switch -
Interior
1
1
E37J
Dome/
Reading
Lamps -
Right Roof
Rail
4
D (-U42)
4 (U42)
E37C
Dome/Reading
Lamps - 3rd Row
2 (U42)
B (-U42)
1
E37ER
Dome/
Reading
Lamps -
Front
Overhead
Console
Right
4
2
S72
Sunroof
Switch
7
3
S43
Content
Theft
Deterrent
Sensor
Disable
Switch
2
1050
BK
1050
BK
1050
BK
1050
BK
1050
BK
1050
BK
1050
BK
1050
BK
1050
BK
1050
BK
1050
BK
G210

Steering Wheel and Control Dimming


J208
V
6817
BN
X2
3
X51L
Fuse Block - Instrument Panel Left
F12DL
2A
X2
4
6136
BN
X201
38
6136
BN
X1
5
X85
Steering Wheel Air Bag Coil
X2
6
-UK3
6136
YE
K9
Body Control Module
UK3
A90
Logic
S70R
Steering Wheel Controls Switch - Right
1 (X88/Z88)
2 (Z75)
6
6817
YE
2 (Z75)
6 (X88/Z88)
S70L
Steering Wheel Controls Switch - Left
1
1050
BK
1050
BK
G210
(X88/Z88)+(KA1/KB6)
S31D
Seat Heating and Cooling Switch - Driver
A90
Logic
(X88/Z88)+(KA1/KB6)
S31P
Seat Heating and Cooling Switch - Passenger
A90
Logic
P16
Instrument Cluster
A90
Logic
A10
Inside Rearview Mirror
A90
Logic
UE1
A34
HVAC Controls - Auxiliary
A90
Logic
P17
Info Display Module
A90
Logic

Door Locks, Windows and Mirror Switch Dimming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Body
Control
Module
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J383
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YE
6817
YE
X500
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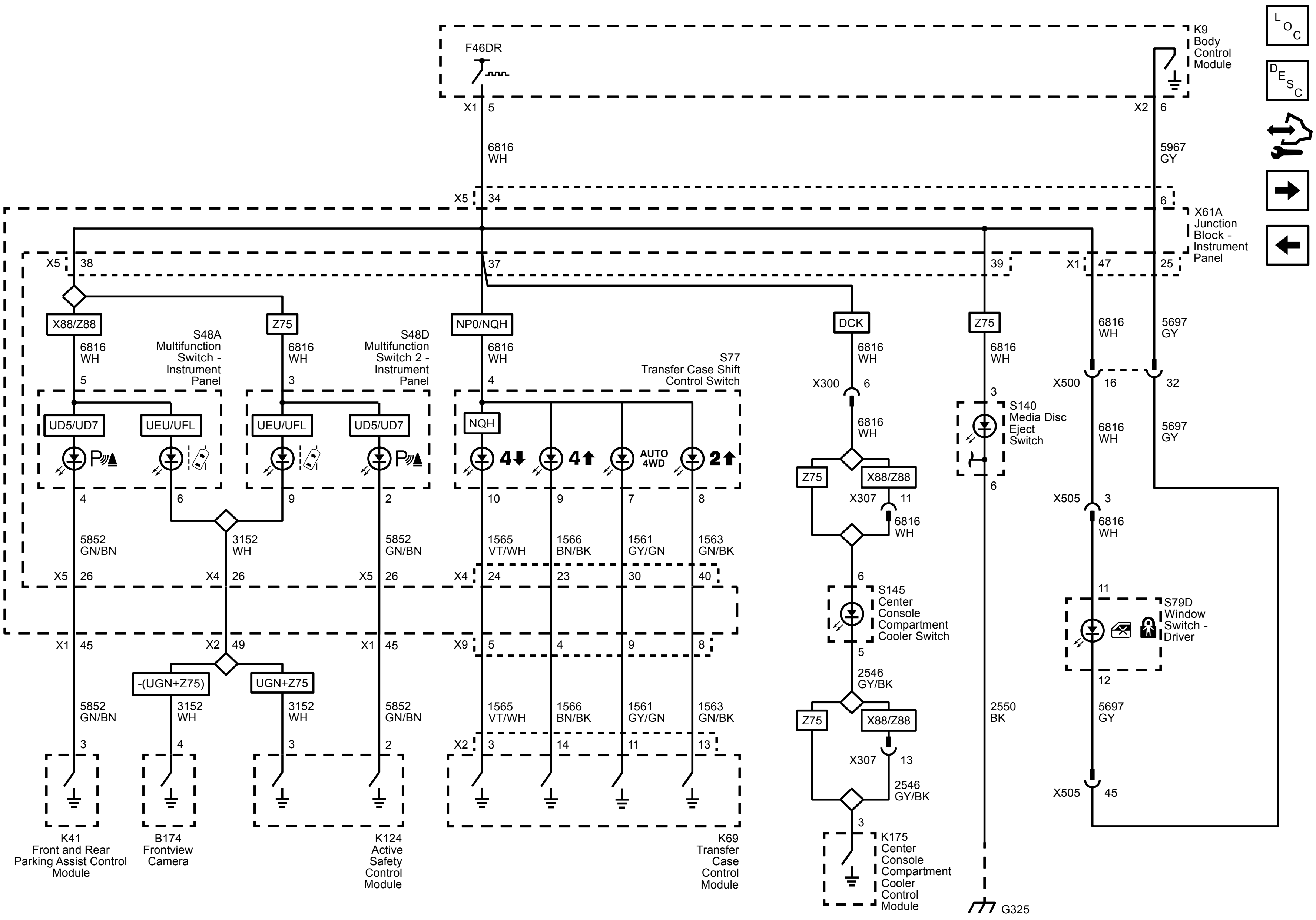
X600
29
6817
YE
6817
YE
X505
1
X605
1
6817
YE
6817
YE
6817
YE
S52
Outside
Rearview
Mirror
Switch
A90
Logic
A45
-A45
A45
6
2
S52
Outside
Rearview
Mirror
Switch
S47D
Seat Memory
Switch - Driver
5
1
5978
BK/BU
X505
32
5978
BK/BU
X500
21
5978
BK/BU
X310
40
5978
BK/BU
X6
11
K40
Seat
Memory
Control
Module
A90
Logic
S79D
Window
Switch -
Driver
A90
Logic
S79LR
Window
Switch -
Left Rear
A90
Logic
S79P
Window
Switch -
Passenger
A90
Logic
S79RR
Window
Switch -
Right
Rear
1
S13D
Door Lock
Switch - Driver
4
1
S13P
Door Lock
Switch -
Passenger
4
1
1150
BK
5
1150
BK
X1
1
1250
BK
5
1250
BK
1150
BK
1150
BK
1150
BK
1250
BK
G311
G312

Indicators Lamps (1 of 2)


F46DR
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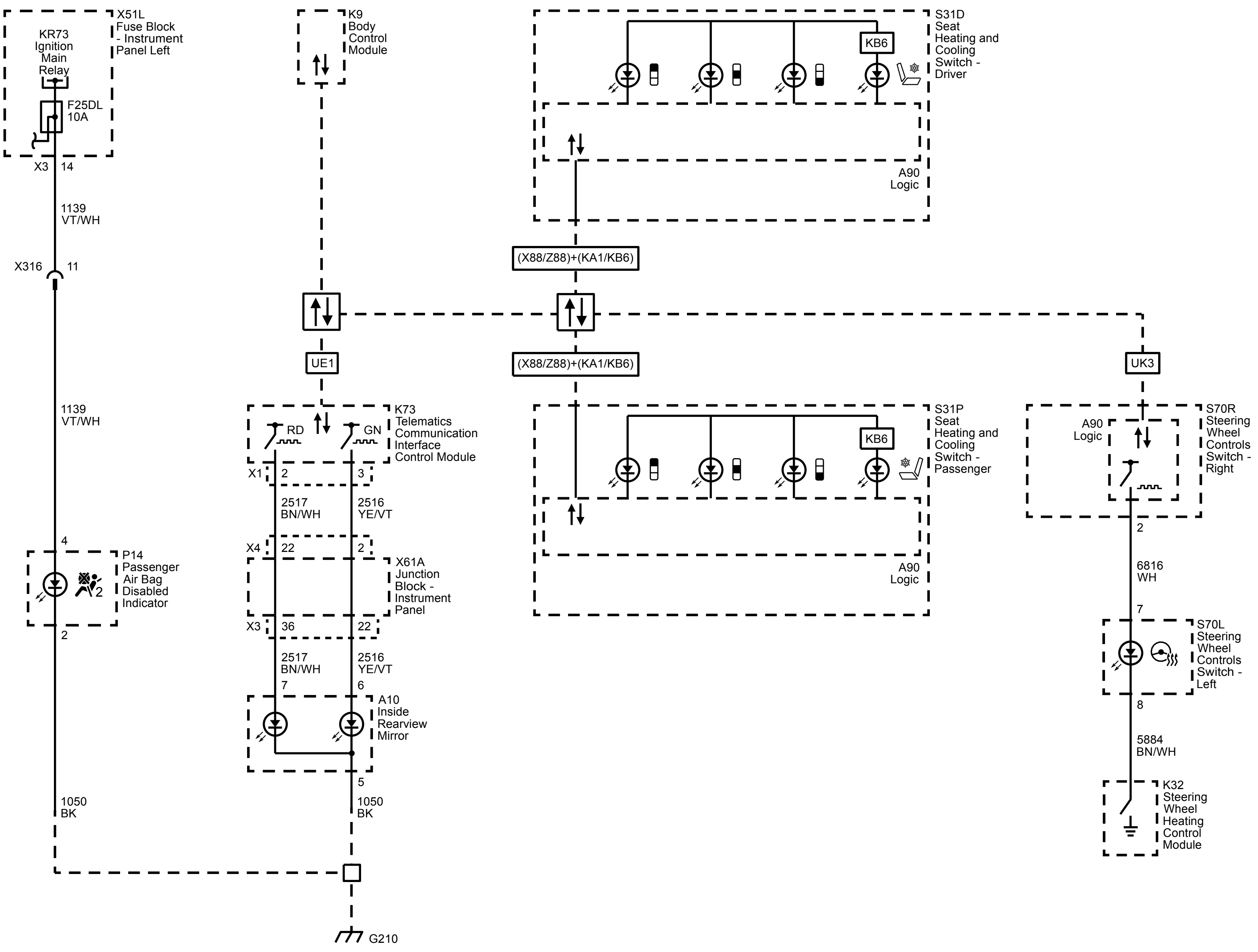
Body
Control
Module
X1 5
X2 6
6816
WH
5967
GY
X5 34
6
X61A
Junction
Block -
Instrument
Panel
X5 38
37
39
X1 47
25
X88/Z88
Z75
NP0/NQH
DCK
Z75
6816
WH
5697
GY
S48A
Multifunction
Switch -
Instrument
Panel
S48D
Multifunction
Switch 2 -
Instrument
Panel
S77
Transfer Case Shift
Control Switch
6816
WH
5
3
4
X300 6
X500 16
32
3
S140
Media Disc
Eject
Switch
UD5/UD7
UEU/UFL
UEU/UFL
UD5/UD7
NQH
4
4
AUTO
4WD
2
Z75
X88/Z88
X307 11
4
6
9
2
10
9
7
8
6
X505 3
5852
GN/BN
3152
WH
5852
GN/BN
1565
VT/WH
1566
BN/BK
1561
GY/GN
1563
GN/BK
X5 26
X4 26
X5 26
X4 24
23
30
40
6
S145
Center
Console
Compartment
Cooler Switch
11
S79D
Window
Switch -
Driver
X1 45
X2 49
X1 45
X9 5
4
9
8
5
2546
GY/BK
12
-(UGN+Z75)
UGN+Z75
2550
BK
3
4
3
2
X2 3
14
11
13
X307 13
X505 45
K41
Front and Rear
Parking Assist Control
Module
B174
Frontview
Camera
K124
Active
Safety
Control
Module
K69
Transfer
Case
Control
Module
K175
Center
Console
Compartment
Cooler
Control
Module
G325
L O C
D E S C

Indicators Lamps (2 of 2)


X51L
Fuse Block
- Instrument
Panel Left
KR73
Ignition
Main
Relay
F25DL
10A
X3
14
1139
VT/WH
X316
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1139
VT/WH
4
P14
Passenger
Air Bag
Disabled
Indicator
2
2
1050
BK
K9
Body
Control
Module
UE1
K73
Telematics
Communication
Interface
Control Module
RD
GN
X1
2
3
2517
BN/WH
2516
YE/VT
X4
22
2
X61A
Junction
Block -
Instrument
Panel
X3
36
22
2517
BN/WH
2516
YE/VT
7
6
A10
Inside
Rearview
Mirror
5
1050
BK
G210
S31D
Seat
Heating and
Cooling
Switch -
Driver
KB6
A90
Logic
(X88/Z88)+(KA1/KB6)
(X88/Z88)+(KA1/KB6)
S31P
Seat
Heating and
Cooling
Switch -
Passenger
KB6
A90
Logic
UK3
A90
Logic
S70R
Steering
Wheel
Controls
Switch -
Right
2
6816
WH
7
S70L
Steering
Wheel
Controls
Switch -
Left
8
5884
BN/WH
K32
Steering
Wheel
Heating
Control
Module

Description and Operation

Exterior Lighting Systems Description and Operation

The exterior lighting system consist of the following lamps:

- Adaptive forward lighting
- Automatic headlamp leveling
- Backup lamps
- Daytime running lamps (DRL)
- Hazard warning lamps
- Headlamps
- Park, tail, license, and marker lamps
- Stop lamps
- Turn signal lamps

Low Beam Headlamps

Warning: The high intensity discharge system produces high voltage and current. To reduce the risk of severe shocks and burns:

- **Never open the high intensity discharge system ballast or the arc tube assembly starter.**
- **Never probe between the high intensity discharge system ballast output connector and the arc tube assembly.**

The headlamps consist of 2 high intensity discharge (HID) arc tubes and ballast on each side of the vehicle which provide high and low beams.

The headlamps may be turned ON in 3 different ways:

- When the headlamp switch is placed in the ON position, for normal operation
- When the headlamp switch is placed in the AUTO position, for automatic lamp control (ALC)
- When the headlamp switch is placed in the AUTO position, with the windshield wipers ON in daylight conditions, after a 6 second delay

The body control module (BCM) monitors three signal circuits from the turn signal/multifunction switch. When the turn signal/multifunction switch is in the AUTO position, all three signal circuits are open. When placed in the AUTO position, the BCM monitors inputs from the ambient light sensor to determine if headlamps are required or if daytime running lamps will be activated based on outside lighting conditions. When the turn signal/multifunction switch is placed in the OFF position, the turn signal/multifunction switch headlamps OFF signal circuit is grounded, indicating to the BCM that the exterior lamps should be turned OFF. With the turn signal/multifunction switch in the PARK position, the turn signal/multifunction switch park lamps ON signal circuit is grounded, indicating that the park lamps have been requested. When the turn signal/multifunction switch is placed in the HEADLAMP position, both the turn signal/multifunction switch park lamps ON signal circuit and the turn signal/multifunction switch headlamps ON signal circuit are grounded. The BCM responds to the low beam request by applying ground to the low beam relay control circuit which energizes the low beam relay. With the low beam relay energized, the switch contacts close allowing battery voltage to flow through the low beam fuses. Battery voltage is then applied from the fuses, through the low beam control circuits to the left and right headlamp ballast located in each headlamp assembly. When battery voltage is applied to the headlamp ballast through the low beam control circuits, the ballast charge the starter to start the lamp. High intensity discharge (HID) headlamps do not have filaments like traditional bulbs, instead the starter uses a high voltage transformer to convert the input voltage into a higher voltage. This increased voltage is used in order to create an arc between the electrodes in the bulb.

The BCM will also command the low beam headlamps ON during daylight conditions when the following conditions are met:

- Headlamp switch in the AUTO position
- Windshield wipers ON
- Vehicle in any gear but PARK

When the BCM commands the low beam headlamps ON, the operator will notice the interior backlighting for the instrument cluster and the various other switches dim to the level of brightness selected by the instrument panel dimmer switch.

Run Up Of The Lamp

Each ballast requires higher amperage in order to ensure normal startup and run up of the lamp. Run up is the term used to describe the extra power level given to the bulb. The input current during the steady state operation is lower that the start up amperage. After the lamp receives the strike from the starter and the arc is established, the ballast uses its operating voltage in order to provide the run up power needed in order to keep the lamp on. The lamp rapidly increases in intensity from a dim glow to a very high-intensity, bright light called a steady state. Within a few seconds of the arc being established in the bulb, the majority of steady state is complete. 100 percent of the steady state is completed shortly there after. A high watt power level is necessary in order to bring the lamp to a steady state in such a short period of time. The high watt power level allows the lamp to meet the SAE light vs. time specification.

When To Change The HID Bulb

Bulb failure, end of life occurs when the bulb gets old and becomes unstable. The bulb may begin shutting itself off sporadically and unpredictably at first, perhaps only once during a 24-hour period. When the bulb begins shutting itself off occasionally, the ballast will automatically turn the bulb back on again within 0.5 seconds. The ballast will re-strike the bulb so quickly that the bulb may not appear to have shut off. As the bulb ages, the bulb may begin to shut off more frequently, eventually over 30 times per minute. When the bulb begins to shut off more frequently, the ballast receives excessive, repetitive current input . Repetitive and excessive restarts or re-strikes, without time for the ballast to cool down, will permanently damage the ballast. As a safeguard, when repetitive re-strikes are detected, the ballast will not attempt to re-strike the lamp. The ballast then shuts down and the bulb goes out.

The following symptoms are noticeable signs of bulb failure:

- Flickering light, caused in the early stages of bulb failure
- Lights go out, caused when the ballast detects excessive, repetitive bulb re-strike

- Color change—The lamp may change to a dim pink glow.

Input power to the ballast must be terminated in order to reset the ballast's fault circuitry. In order to terminate the input power to the ballast, turn the lights off and back on again. Turning the lights off and back on again resets all of the fault circuitry within the ballast until the next occurrence of excessive, repetitive bulb re-strikes. When excessive, repetitive bulb re-strikes occur, replace the starter/arc tube assembly. The ballast will begin the start-up process when the starter/arc tube assembly is replaced. Repeatedly resetting the input power can overheat the internal components and cause permanent damage to the ballast. Allow a few minutes of cool-down time in between reset attempts.

Light Color

White light has a different color rating than regular headlamps. The range of white light that is acceptable is broad when compared to halogens. Therefore, some variation in headlight coloring between the right and left headlamp will be normal. One high intensity discharge (HID) at the end of the normal range may appear considerably different in color from one at the other end of the range. Difference in color is normal. Replace the arc tube only if the arc tube is determined to be at the bulb failure stage.

High Beam Headlamps

When the low beam headlamps are ON and the turn signal/multifunction switch is placed in the high beam position, ground is applied to the BCM through the high beam signal circuit. The BCM responds to the high beam request by applying ground to the high beam relay control circuit which energizes the high beam relay. With the high beam relay energized, the switch contacts close allowing battery voltage to flow through the left and right high beam fuses to the high beam control circuits and on to the left and right high beam solenoid actuators within the headlamp assemblies. Once the high beam solenoid actuators are active, the solenoid shutters open in each headlamp assembly exposing the remaining portion of the headlamp that was covered by the shutters illuminating the high beams at full intensity.

Adaptive Forward Lighting (AFL)

The AFL consist of the following components:

- Headlamp control module
- Headlamp actuator - left
- Headlamp actuator - right

Battery positive voltage is applied to the headlamp control module at all times and when the ignition switch is in the RUN and CRANK positions. The headlamp control module has an operational voltage range of about 10.5-16 volts and is only fully functional when the ignition switch is in the RUN position. The voltage input from the ignition switch wakes the headlamp control module microprocessor. The headlamp control module receives serial data messages from the engine control module (ECM), transmission control module (TCM), electronic brake control module (EBCM), and body control module (BCM) with regards to power mode, speed, steering angle, transmission gear selection, and headlamp switch status. The headlamp control module calculates the headlamp angle and sends commands to the left and right headlamp actuators. The headlamp actuators drive the headlamps to the position commanded by the headlamp control module. The headlamp control module monitors the headlamp actuator motor control circuits for proper circuit continuity and for shorts to ground or voltage. If a malfunction is detected, a DTC will be stored in memory and the driver will be notified with a message displayed over the driver information center (DIC) located on the instrument panel cluster (IPC).

The headlamp control module controls the left headlamp movement by 15 degrees to the left and 5 degrees to the right, and the right headlamp movement by 5 degrees to the left and 15 degrees to the right. The direction the headlamps move is controlled by the steering wheel angle and is limited by steering angles of approximately +/- 90 degrees. The AFL will not operate with the transmission in reverse or at vehicle speeds less than 2 mph. Movement of the headlamps is restricted at low vehicle speeds and full movement of the lamps is not allowed until vehicle speed is greater than approximately 30 mph. The following conditions must be met before the AFL will operate:

- Headlamp switch in the AUTO position and high or low beam headlamps must be active
- Steering angle position must be received from the EBCM with the steering signal validity bit set
- Vehicle speed must be received from the ECM with the steering signal validity bit set
- Transmission gear position must be received from the TCM with the transmission gear position validity bit set

Automatic Headlamp Leveling

The Automatic Headlamp Leveling Systems consist of the following components:

- Headlamp control module
- Headlamp leveling actuator - left
- Headlamp leveling actuator - right
- Suspension position sensor - front
- Suspension position sensor - rear

The automatic headlamp leveling system automatically maintains the vertical alignment of the headlamps when the vehicle load and driving conditions change. Each headlamp assembly contains a headlamp leveling motor that is controlled by the headlamp control module. The front and rear suspension position sensors provide the headlamp control module with suspension position information. Each sensor receives a 5-volt reference, signal, and low reference circuits from the headlamp control module. The sensors are connected to the control arms of the front and rear suspension. As the vehicle travels, the suspension compresses and rebounds moving the suspension position sensor arms. This causes the signal output of the sensor to change. The headlamp control module compares the information from both suspension position sensors and adjusts the headlamp leveling as needed.

Daytime Running Lamps (DRL)

The daytime running lamps (DRL) will illuminate continuously when the following conditions are met:

- The ignition is in the RUN or CRANK position
- The shift lever is out of the PARK position for vehicles equipped with automatic transmissions or the parking brake is released for vehicles with manual transmissions
- The low and high beam headlamps are OFF

The ambient light sensor is used to monitor outside lighting conditions. The ambient light sensor provides a voltage signal that will vary between 0.2 and 4.9 volts depending on outside lighting conditions. The body control module (BCM) provides a 5-volt reference signal to the ambient light sensor and the HVAC control module provides a low reference ground. The BCM monitors the ambient light sensor signal circuit to determine if outside lighting conditions are correct for either daytime running lights (DRL) or automatic lamp control (ALC) when the headlamp switch is in the AUTO position. In daylight conditions the BCM will command the designated DRLs ON. During low light conditions the BCM will command the low beam headlamps ON. Any function or condition that turns on the headlamps will cancel DRL operation.

Automatic Lamp Control

Place the turn signal/multifunction switch in the AUTO position for automatic lamp control. During automatic lamp control the headlamps will be off during daylight conditions but will turn on when the ambient light sensor detects low outside light level. The ambient light sensor is a light sensitive transistor that varies the voltage signal to the HVAC control module. The HVAC control module sends a signal to the body control module (BCM) via serial data commanding the BCM to apply ground to the headlamp low beam relay control circuit. This energizes the low beam relay, closing the switched side and applies battery voltage to the LEFT and RIGHT LOW BEAM fuses. Battery voltage is applied from the low beam fuses, through the low beam voltage supply circuits to low headlamp assemblies.

Flash to Pass (FTP)

When the turn signal/multifunction switch is momentarily placed in the flash to pass (FTP) position, ground is applied to the turn signal/multifunction switch. The turn signal/multifunction switch applies ground to the body control module (BCM) through the FTP switch signal circuit. The BCM responds to the FTP request by applying ground to the high beam relay control circuit. This energizes the high beam relay, closing the switch side contacts of the high beam relay, applying battery voltage to the left and right high beam fuses. Battery voltage is applied from the high beam fuses through the high beam control circuit to the high beam headlamp assemblies. This causes the high beam headlamps to illuminate at full brightness momentarily.

Hazard Lamps

The hazard flashers may be activated in any power mode. The hazard switch signal circuit is momentarily grounded when the hazard switch is pressed. The body control module (BCM) responds to the hazard switch signal input by supplying battery voltage to all four turn signal lamps in an ON and OFF duty cycle. When the hazard switch is activated, the BCM sends a serial data message to the instrument panel cluster (IPC) requesting both turn signal indicators to be cycled ON and OFF.

The I/P dimmer switch controls the brightness of the interior backlighting components. When the I/P dimmer switch is placed in a desired brightness position, the body control module (BCM) receives a signal from the I/P dimmer switch and responds by applying a pulse width modulated (PWM) voltage to the hazard switch light emitting diode (LED) backlighting control circuit illuminating the LED to the desired level of brightness.

Park, Tail, and License Lamps

When the headlamp switch is placed in the HEAD or PARK position, ground is applied to the park lamp switch ON signal circuit to the body control module (BCM). The BCM responds by applying voltage to the park lamps, tail lamps, and license lamps control circuits illuminating the park, tail, and license lamps.

Stop Lamps

The brake pedal position (BPP) sensor is used to sense the action of the driver application of the brake pedal. The BPP sensor provides an analog voltage signal that will increase as the brake pedal is applied. The body control module (BCM) provides a low reference signal and a 5-volt reference voltage to the BPP sensor. When the variable signal reaches a voltage threshold indicating the brakes have been applied, the BCM will apply battery voltage to the left and right stop lamp control circuits as well as the center high mounted stop lamp (CHMSL) control circuit illuminating the left and right stop lamps and the CHMSL.

Turn Signal Lamps

Ground is applied at all times to the turn signal/multifunction switch. The turn signal lamps may only be activated with the ignition switch in the ON or START positions. When the turn signal/multifunction switch is placed in either the TURN RIGHT or TURN LEFT position, ground is applied to the body control module (BCM) through either the right turn or left turn signal switch signal circuit. The BCM responds to the turn signal switch input by applying a pulsating voltage to the front and rear turn signal lamps through there respective control circuits. When a turn signal request is received by the BCM, a serial data message is sent to the instrument panel cluster (IPC) requesting the respective turn signal indicator be pulsed ON and OFF.

Backup Lamps

With the engine ON and the transmission in the REVERSE position, the transmission control module (TCM) sends a serial data message to the body control module (BCM). The message indicates that the gear selector is in the REVERSE position. The BCM applies battery voltage to the backup lamps control circuit illuminating the backup lamps. Once the driver moves the gear selector out of the REVERSE position, a message is sent by the TCM via serial data requesting the BCM to remove battery voltage from the backup lamps control circuit. The engine must be ON for the backup lamps to operate.

Battery Run Down Protection/Inadvertent Power

To provide battery run down protection, the exterior lamps will be deactivated automatically under certain conditions. The BCM monitors the state of the headlamp switch. If the park or headlamp switch is ON when the ignition switch is placed in either the CRANK or RUN position and then placed in the OFF position, the BCM initiates a 10 min timer. At the end of the 10 min, the BCM will turn off the control power output to the park lamp controls as well as the headlamp relay coils, deactivating the exterior lamps. This feature will be cancelled if any power mode other than OFF becomes active. The BCM will disable battery run down protection if any of the following conditions exist. The park or headlamp switch is placed in the ON to OFF position, and back to the ON position during battery run down protection. The BCM determined that the park or headlamp switch was not active when the ignition was turned OFF.

Interior Lighting Systems Description and Operation

Interior Lamps

The interior lighting system consist of two groups. This first group includes lamps that may not be dimmed.

- Dome lamps
- I/P compartment lamps
- Reading lamps
- Rear compartment courtesy lamp
- Sunshade mirror lamps

Dome Lamps

The dome lamp switch has 3 positions: DOOR, OFF, and ON. The ON position provides a ground for continuous operation and the dome lamp will remain illuminated until the switch is placed in either the DOOR or OFF position. When in the DOOR position, the dome lamp operation is controlled by the body control module (BCM). When any door is opened, the door ajar switch contacts close and the BCM receives a door-open input. The BCM illuminates the dome lamp when any door is opened or a door lock/unlock request is activated with the key fob. After all doors have been closed, the dome lamp will remain illuminated approximately 3 seconds after the last door closes. When the driver places the dome lamp switch in the OFF position, the dome lamp will be disabled. In the event that the dome lamp were to remain illuminated for more than 10 minutes with the ignition switch in the OFF position and no doors opened, the BCM will deactivate the dome lamp control circuit to prevent total battery discharge. The dome lamps will turn OFF using the theater dimming feature when controlled by the BCM.

Center Console Compartment Lamp

The inadvertent power supply voltage circuit from the BCM provides battery voltage to the center console compartment lamp. When the center console is opened, the center console compartment lamp switch contacts close providing a path to ground and the center console compartment lamp illuminates. If the operator inadvertently leaves the center console compartment door open with the center console compartment lamp ON, the BCM will turn all interior lamps OFF after 10 minutes has passed since any switch activation has been detected by the BCM.

Instrument Panel (I/P) Compartment Lamp

The inadvertent power supply voltage circuit from the BCM provides battery voltage to the I/P compartment (glove box) lamp. When the I/P compartment is opened, the I/P compartment lamp switch contacts close providing a path to ground and the I/P compartment lamp illuminates. If the operator inadvertently leaves the I/P compartment door open with the I/P compartment lamp ON, the BCM will turn all interior lamps OFF after 10 minutes has passed since any switch activation has been detected by the BCM. The I/P compartment lamp is permanently grounded at ground G204.

Reading Lamps

The inadvertent power supply voltage circuit from the BCM provides battery positive voltage to each reading lamp. When a reading lamp switch is activated, the switch contacts close providing a path to ground and the reading lamp illuminates. If the operator inadvertently leaves a reading lamp ON, the BCM will turn all interior lamps OFF after 10 minutes has passed since any switch activation has been detected by the BCM.

Rear Compartment Courtesy Lamp

When the rear compartment is opened, the rear compartment lid latch opens providing a rear compartment open input signal to the BCM. The BCM responds by applying battery voltage to the rear compartment courtesy lamp control circuit illuminating the rear compartment courtesy lamp.

Sunshade Mirror Lamps

The inadvertent power supply voltage circuit from the BCM provides battery voltage to each set of sunshade mirror lamps. When the sunshade mirror cover is opened, a switch closes providing ground and the sunshade lamps illuminate. If the operator inadvertently leaves a sunshade mirror cover open with the lamps ON, the BCM will turn all interior lamps OFF after 10 minutes has passed since any switch activation has been detected by the BCM.

Keyless Entry Interior Illumination

When the operator uses the keyless entry transmitter in order to unlock the doors, the BCM receives a door-unlock signal. The BCM must receive inputs from various systems that indicate that the ignition switch is OFF, the courtesy lamp switch is OFF, and all doors are closed before the BCM will activate the interior lamps. After all doors have been closed, the courtesy lamps will turn OFF immediately if the ignition switch is turned to the ON position, the door locks are LOCKED, or approximately 20 seconds after the last door closes. The BCM will turn off the courtesy lamps through the theater dimming feature. The BCM keeps the courtesy lamps on for 40 seconds after an alarm event is completed.

Interior Lamps Dimming

The second group includes lamps which may be dimmed. This group may use a combination of light emitting diodes (LED), incandescent lamps, and pulse width modulation (PWM) illumination.

- Dome/reading lamps – front
- Dome/reading lamps – rear
- Door lock switch – driver
- Door lock switch – passenger
- Headlamp switch
- Hazard switch
- HVAC control head assembly
- Ignition mode switch
- Multifunction switch – instrument panel
- Outside rearview mirror switch
- Park brake switch

- Radio
- Rear compartment lid unlatch switch
- Steering wheel control switch – left
- Steering wheel control switch – right
- Sun roof switch
- Sun roof tilt switch
- Window switch – passenger

With the headlamp switch in the PARK or HEAD position, the park lamp switch signal circuit provides an input to the body control module (BCM). The BCM responds by applying voltage to the park lamps as well as the backlight dimming control circuits illuminating all components with interior backlighting. All interior backlighting turns ON at the dimming level indicated by the instrument panel (I/P) dimmer switch. The instrument panel (I/P) dimmer switch is a momentary type switch and utilizes a resistor ladder to increase and decrease the brightness of the interior backlighting components. The I/P dimmer switch provides a voltage signal to the BCM that will increase as the brightness of the lights are increased and decrease as the brightness of the lights are decreased. The BCM provides a low reference signal and a B+ circuit to the I/P dimmer switch. When the I/P dimmer switch is held in the desired position, the dimmed voltage setting is applied from the I/P dimmer switch through the I/P dimmer switch signal circuit to the BCM. The BCM interprets the signal and applies a pulse width modulated (PWM) voltage through the backlighting control circuits illuminating the interior backlighting to the requested level of brightness.

Battery Rundown Protection/Inadvertent Power

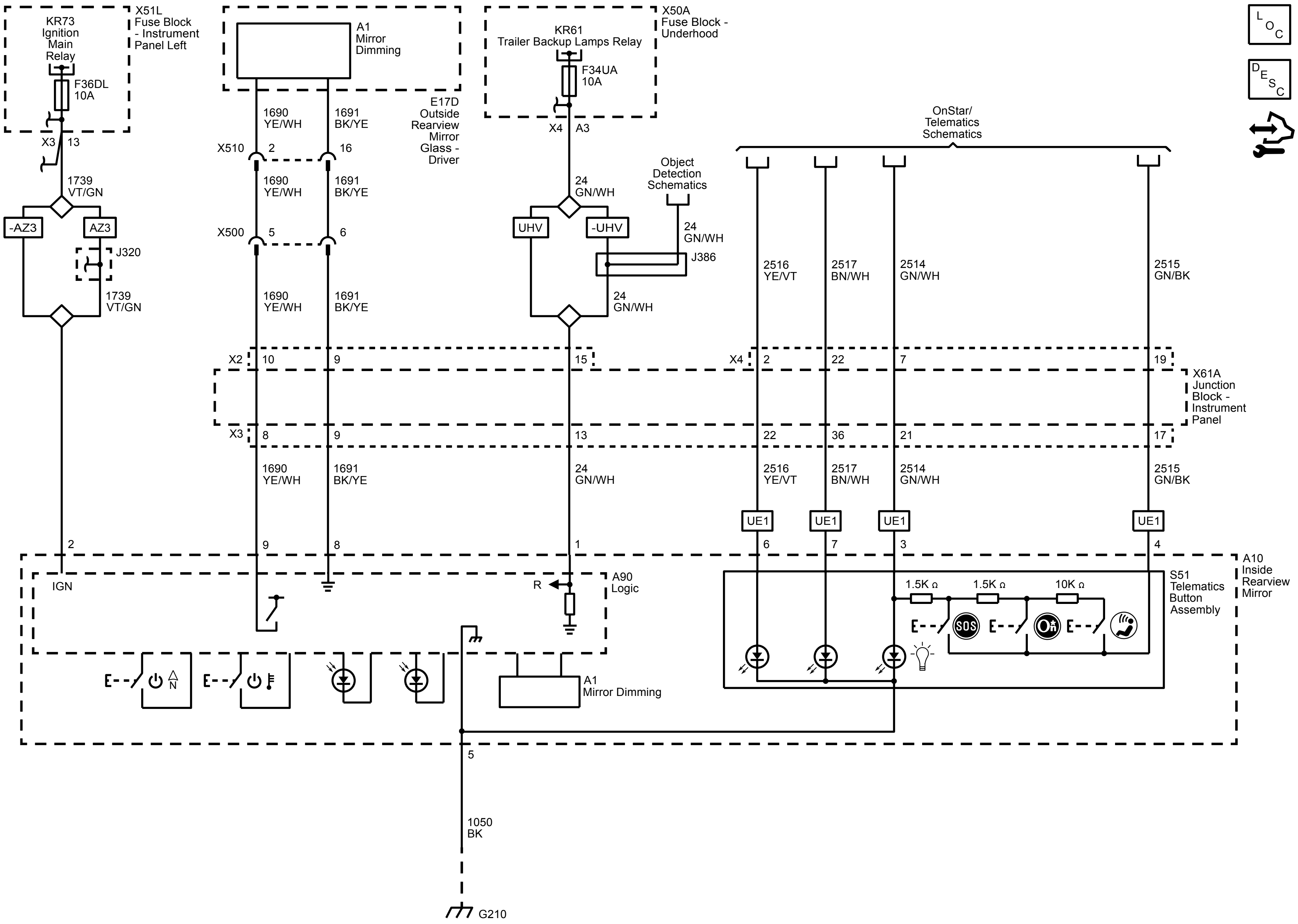
The BCM inadvertent power supply voltage circuit provides battery voltage to all of the interior courtesy lamps. In the event that any of these lamps were to remain illuminated for a period of more than 10 minutes with the ignition switch in the OFF position, the BCM will deactivate the inadvertent power supply voltage circuit to prevent total battery discharge. If the ignition switch is turned to any position other than OFF, or if a lamp switch is activated during this 10 minute period, the timer resets for another 10 minutes.

Mirrors

Schematic and Routing Diagrams

Inside Rearview Mirror Schematics

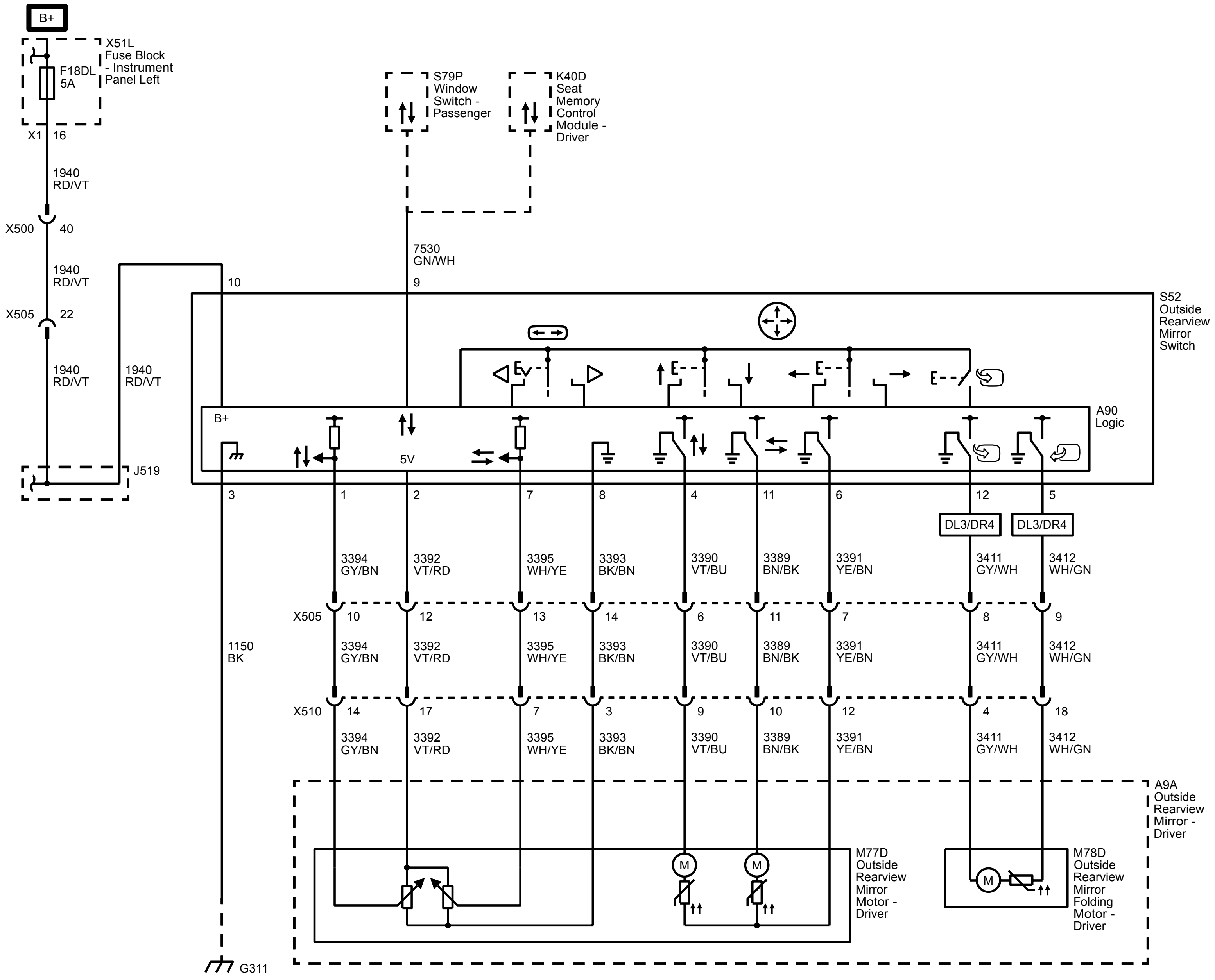
DD8



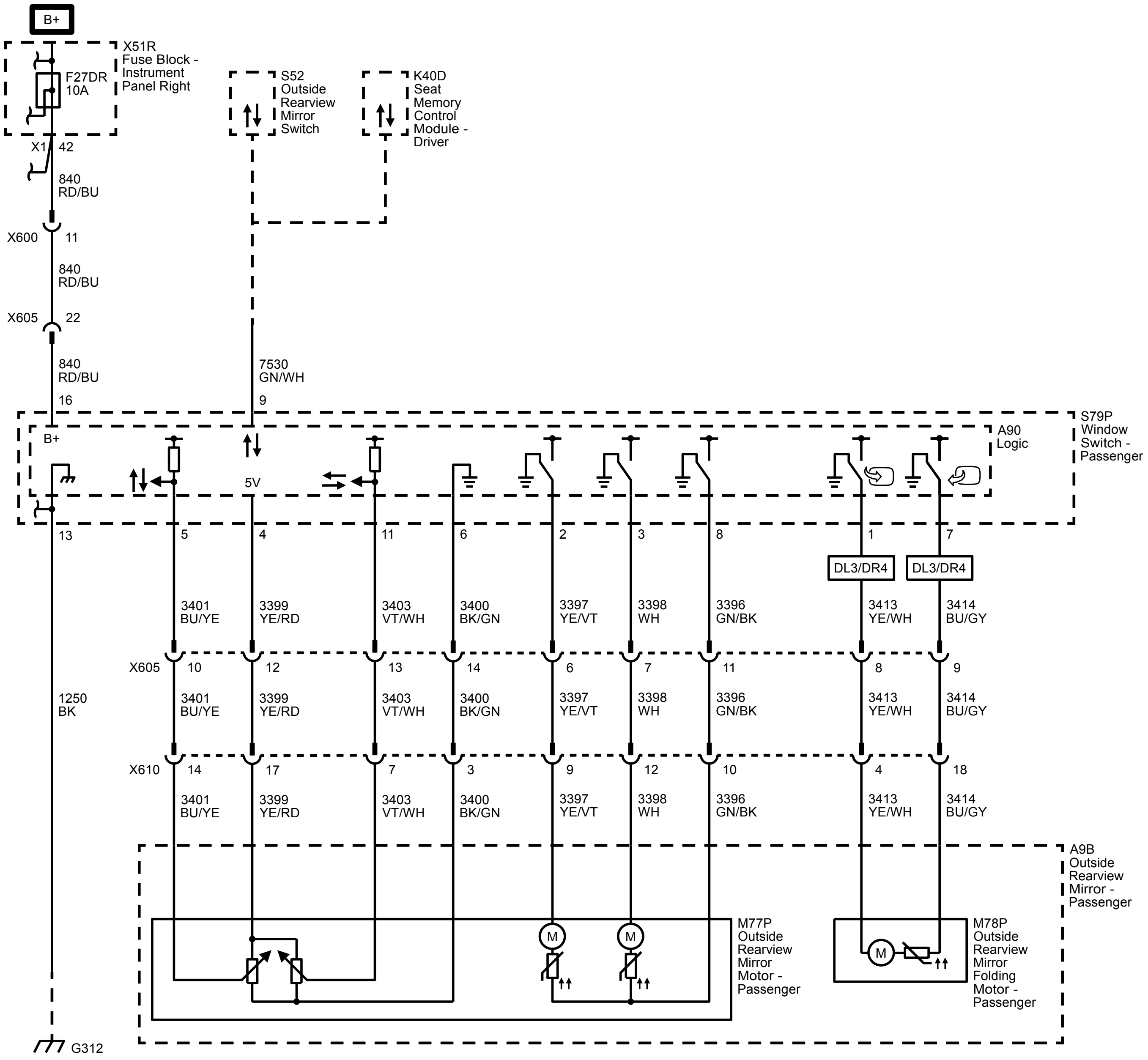
KR73
Ignition
Main
Relay
X51L
Fuse Block
- Instrument
Panel Left
F36DL
10A
X3
13
1739
VT/GN
-AZ3
AZ3
J320
1739
VT/GN
A1
Mirror
Dimming
E17D
Outside
Rearview
Mirror
Glass -
Driver
1690
YE/WH
1691
BK/YE
X510
2
16
1690
YE/WH
1691
BK/YE
X500
5
6
1690
YE/WH
1691
BK/YE
KR61
Trailer Backup Lamps Relay
X50A
Fuse Block -
Underhood
F34UA
10A
X4
A3
24
GN/WH
UHV
-UHV
Object
Detection
Schematics
24
GN/WH
J386
24
GN/WH
OnStar/
Telematics
Schematics
2516
YE/VT
2517
BN/WH
2514
GN/WH
2515
GN/BK
X2
10
9
15
X4
2
22
7
19
X61A
Junction
Block -
Instrument
Panel
X3
8
9
13
22
36
21
17
1690
YE/WH
1691
BK/YE
24
GN/WH
2516
YE/VT
2517
BN/WH
2514
GN/WH
2515
GN/BK
UE1
UE1
UE1
UE1
2
9
8
1
6
7
3
4
A10
Inside
Rearview
Mirror
IGN
R
A90
Logic
1.5K Ω
1.5K Ω
10K Ω
S51
Telematics
Button
Assembly
SOS
A1
Mirror Dimming
5
1050
BK
G210
LOC
DESC

Outside Rearview Mirror Schematics

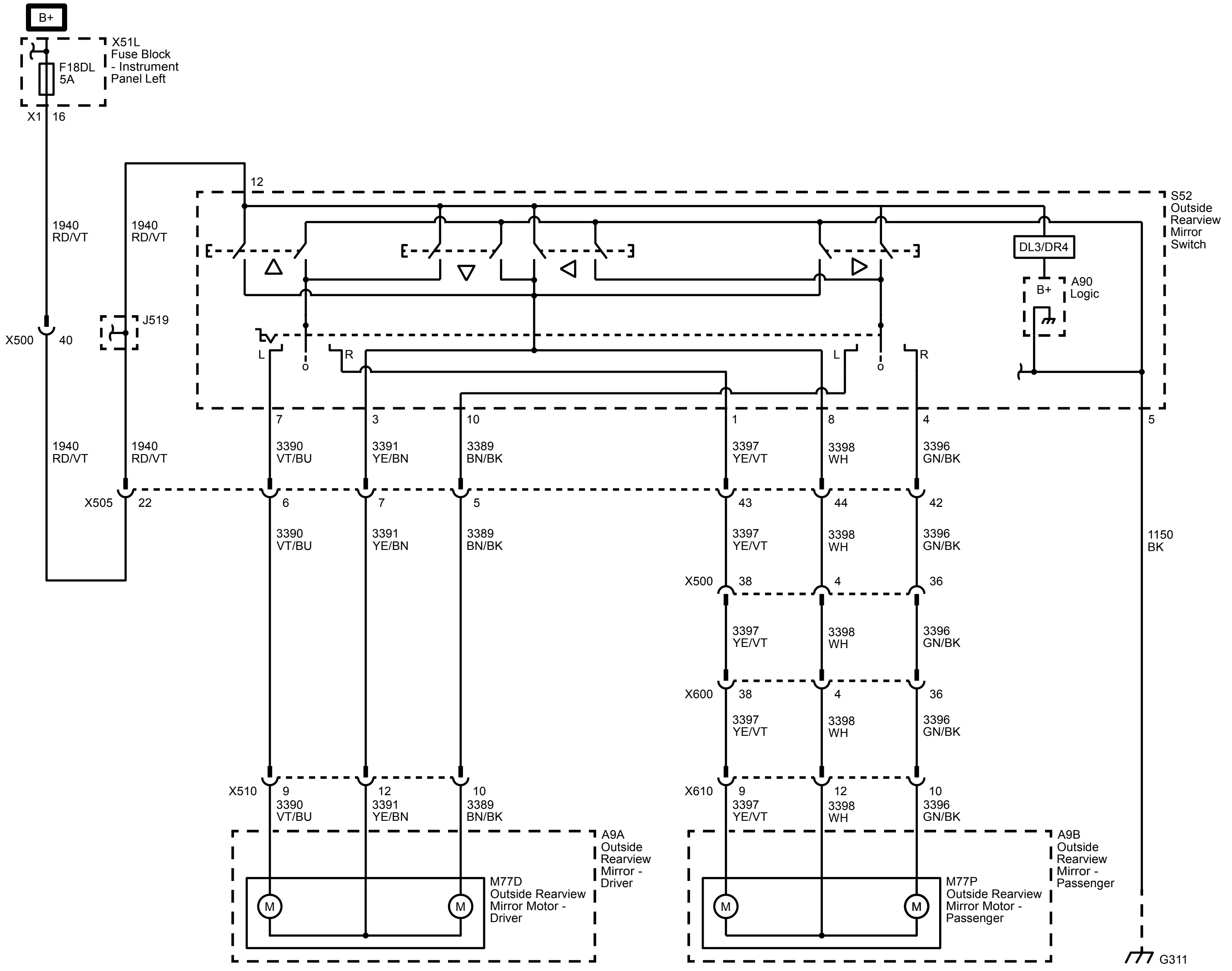
Controls, Driver Position and Folding (A45)


B+
X51L Fuse Block - Instrument Panel Left
F18DL 5A
X1 16
1940 RD/VT
X500 40
1940 RD/VT
X505 22
1940 RD/VT
1940 RD/VT
J519
S79P Window Switch - Passenger
K40D Seat Memory Control Module - Driver
7530 GN/WH
10
9
S52 Outside Rearview Mirror Switch
A90 Logic
B+
5V
3
1
2
7
8
4
11
6
12
5
DL3/DR4
DL3/DR4
3394 GY/BN
3392 VT/RD
3395 WH/YE
3393 BK/BN
3390 VT/BU
3389 BN/BK
3391 YE/BN
3411 GY/WH
3412 WH/GN
X505 10
12
13
14
6
11
7
8
9
1150 BK
3394 GY/BN
3392 VT/RD
3395 WH/YE
3393 BK/BN
3390 VT/BU
3389 BN/BK
3391 YE/BN
3411 GY/WH
3412 WH/GN
X510 14
17
7
3
9
10
12
4
18
3394 GY/BN
3392 VT/RD
3395 WH/YE
3393 BK/BN
3390 VT/BU
3389 BN/BK
3391 YE/BN
3411 GY/WH
3412 WH/GN
A9A Outside Rearview Mirror - Driver
M
M
M77D Outside Rearview Mirror Motor - Driver
M
M78D Outside Rearview Mirror Folding Motor - Driver
G311

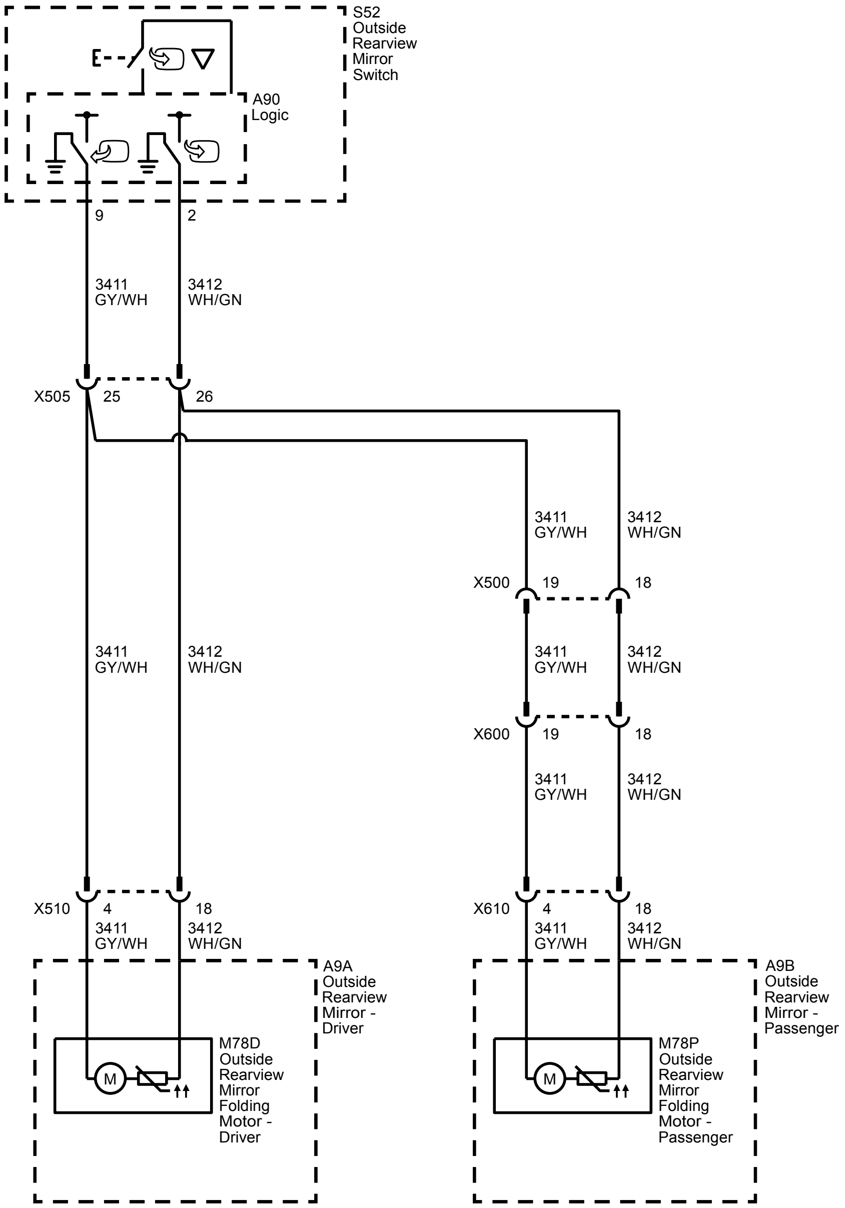
Passenger Position and Folding (A45)


B+
X51R
Fuse Block - Instrument Panel Right
F27DR 10A
X1 42
840 RD/BU
X600 11
840 RD/BU
X605 22
840 RD/BU
16
S52 Outside Rearview Mirror Switch
K40D Seat Memory Control Module - Driver
7530 GN/WH
9
S79P Window Switch - Passenger
A90 Logic
B+
5V
13
5
4
11
6
2
3
8
1
7
DL3/DR4
DL3/DR4
1250 BK
3401 BU/YE
3399 YE/RD
3403 VT/WH
3400 BK/GN
3397 YE/VT
3398 WH
3396 GN/BK
3413 YE/WH
3414 BU/GY
X605
10
12
13
14
6
7
11
8
9
3401 BU/YE
3399 YE/RD
3403 VT/WH
3400 BK/GN
3397 YE/VT
3398 WH
3396 GN/BK
3413 YE/WH
3414 BU/GY
X610
14
17
7
3
9
12
10
4
18
3401 BU/YE
3399 YE/RD
3403 VT/WH
3400 BK/GN
3397 YE/VT
3398 WH
3396 GN/BK
3413 YE/WH
3414 BU/GY
A9B Outside Rearview Mirror - Passenger
M
M
M77P Outside Rearview Mirror Motor - Passenger
M
M78P Outside Rearview Mirror Folding Motor - Passenger
G312

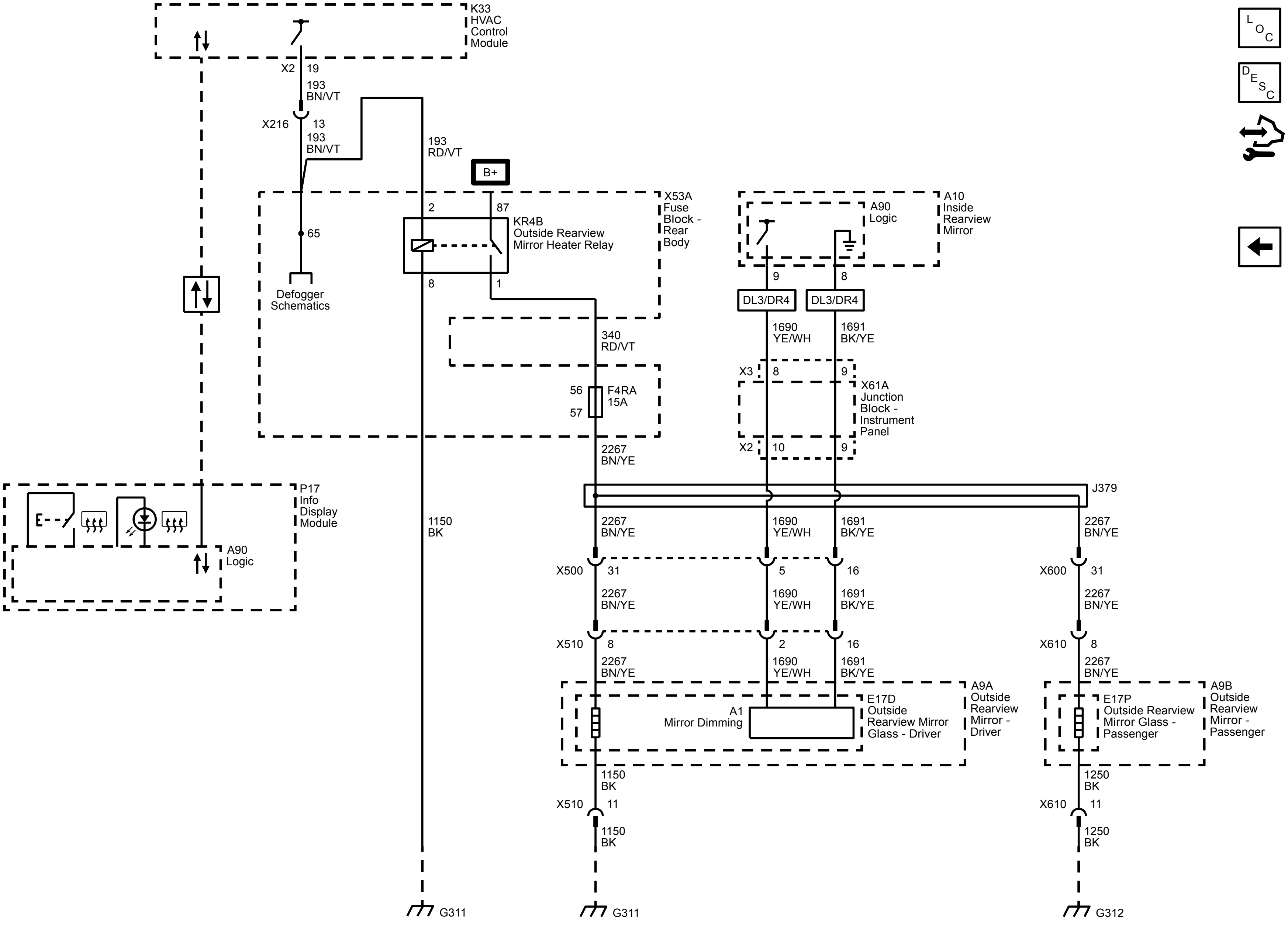
Position (without A45)


B+
X51L
Fuse Block
- Instrument
Panel Left
F18DL
5A
X1
16
1940
RD/VT
1940
RD/VT
12
S52
Outside
Rearview
Mirror
Switch
DL3/DR4
A90
Logic
B+
J519
X500
40
L
o
R
L
o
R
7
3
10
1
8
4
5
1940
RD/VT
1940
RD/VT
3390
VT/BU
3391
YE/BN
3389
BN/BK
3397
YE/VT
3398
WH
3396
GN/BK
X505
22
6
7
5
43
44
42
3390
VT/BU
3391
YE/BN
3389
BN/BK
3397
YE/VT
3398
WH
3396
GN/BK
1150
BK
X500
38
4
36
3397
YE/VT
3398
WH
3396
GN/BK
X600
38
4
36
3397
YE/VT
3398
WH
3396
GN/BK
X510
9
3390
VT/BU
12
3391
YE/BN
10
3389
BN/BK
X610
9
3397
YE/VT
12
3398
WH
10
3396
GN/BK
A9A
Outside
Rearview
Mirror -
Driver
M
M
M77D
Outside Rearview
Mirror Motor -
Driver
A9B
Outside
Rearview
Mirror -
Passenger
M
M
M77P
Outside Rearview
Mirror Motor -
Passenger
G311

Folding (DL3 or DR4 without A45)


S52
Outside
Rearview
Mirror
Switch
A90
Logic
9
2
3411
GY/WH
3412
WH/GN
X505
25
26
3411
GY/WH
3412
WH/GN
X500
19
18
3411
GY/WH
3412
WH/GN
3411
GY/WH
3412
WH/GN
X600
19
18
3411
GY/WH
3412
WH/GN
X510
4
18
3411
GY/WH
3412
WH/GN
X610
4
18
3411
GY/WH
3412
WH/GN
A9A
Outside
Rearview
Mirror -
Driver
M
M78D
Outside
Rearview
Mirror
Folding
Motor -
Driver
A9B
Outside
Rearview
Mirror -
Passenger
M
M78P
Outside
Rearview
Mirror
Folding
Motor -
Passenger

Dimming (DL3 or DR4) and Heating

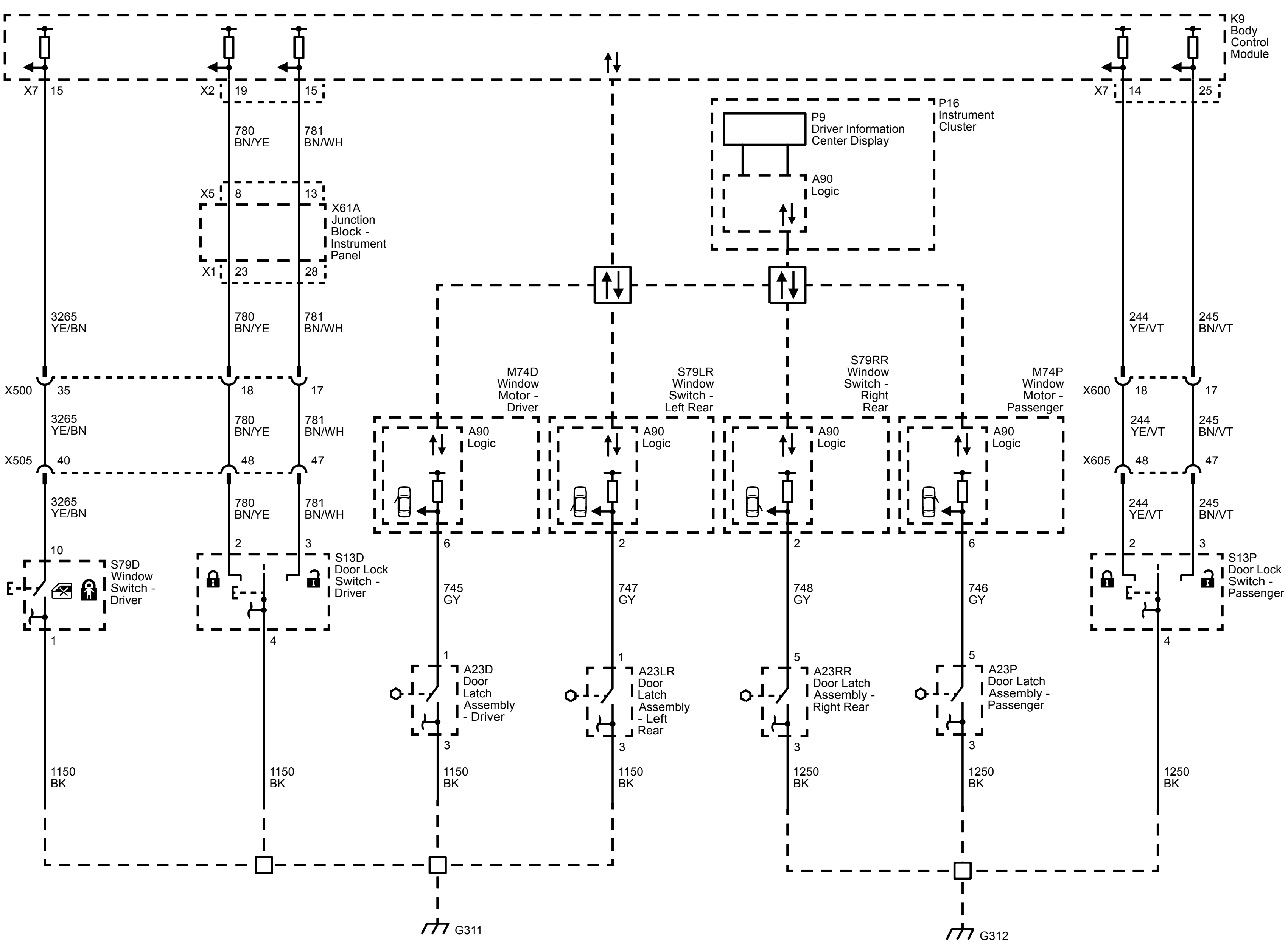

K33
HVAC
Control
Module
X2
19
193
BN/VT
X216
13
193
BN/VT
193
RD/VT
B+
X53A
Fuse
Block -
Rear
Body
2
87
KR4B
Outside Rearview
Mirror Heater Relay
8
1
65
Defogger
Schematics
340
RD/VT
56
F4RA
15A
57
2267
BN/YE
A10
Inside
Rearview
Mirror
A90
Logic
9
8
DL3/DR4
DL3/DR4
1690
YE/WH
1691
BK/YE
X3
8
9
X61A
Junction
Block -
Instrument
Panel
X2
10
9
J379
P17
Info
Display
Module
A90
Logic
1150
BK
2267
BN/YE
1690
YE/WH
1691
BK/YE
2267
BN/YE
X500
31
5
16
X600
31
2267
BN/YE
1690
YE/WH
1691
BK/YE
2267
BN/YE
X510
8
2
16
X610
8
2267
BN/YE
1690
YE/WH
1691
BK/YE
2267
BN/YE
A9A
Outside
Rearview
Mirror -
Driver
A1
Mirror Dimming
E17D
Outside
Rearview Mirror
Glass - Driver
A9B
Outside
Rearview
Mirror -
Passenger
E17P
Outside Rearview
Mirror Glass -
Passenger
1150
BK
X510
11
1150
BK
1250
BK
X610
11
1250
BK
G311
G311
G312

Vehicle Access

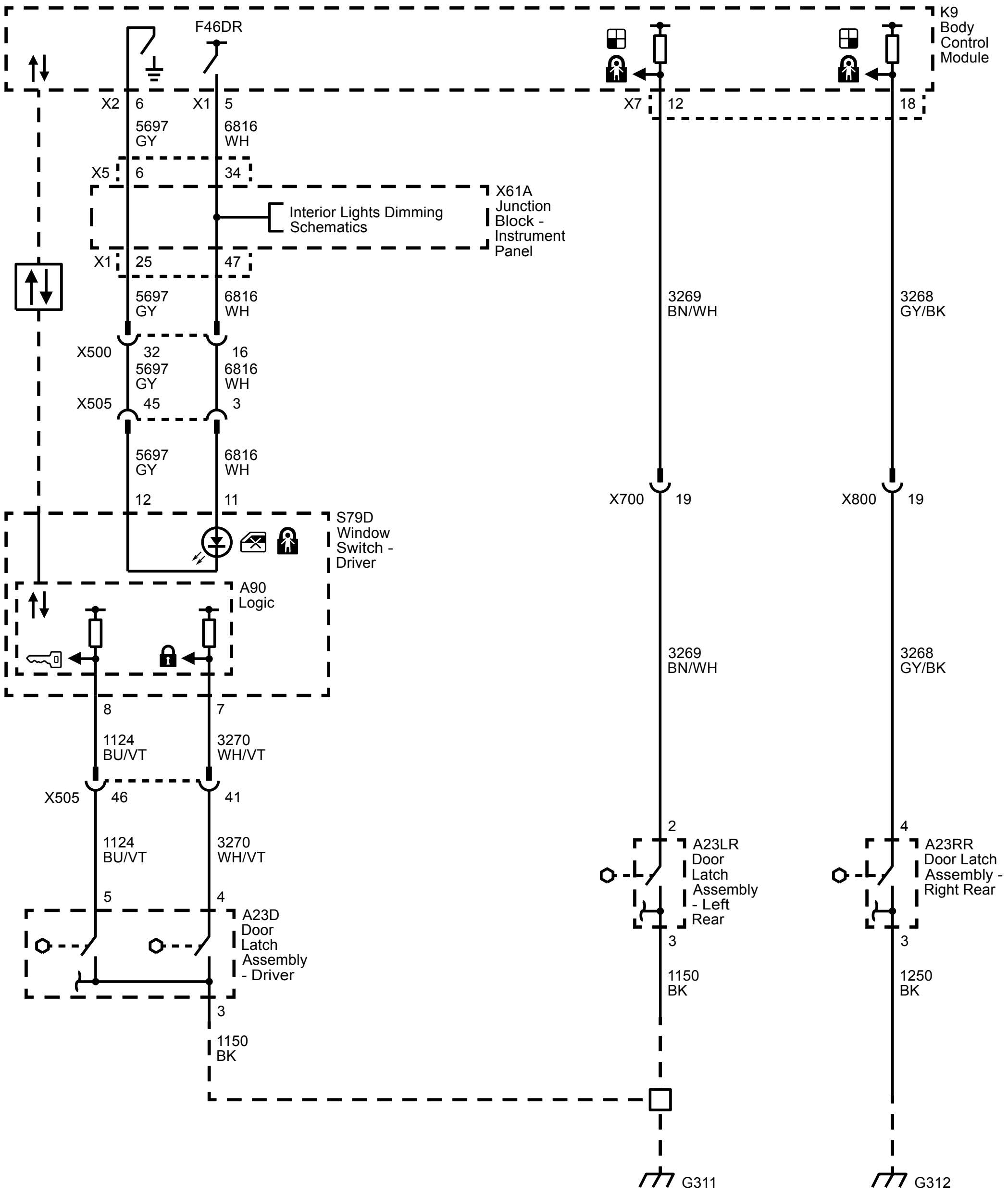
Schematic and Routing Diagrams

Door Lock/Indicator Schematics

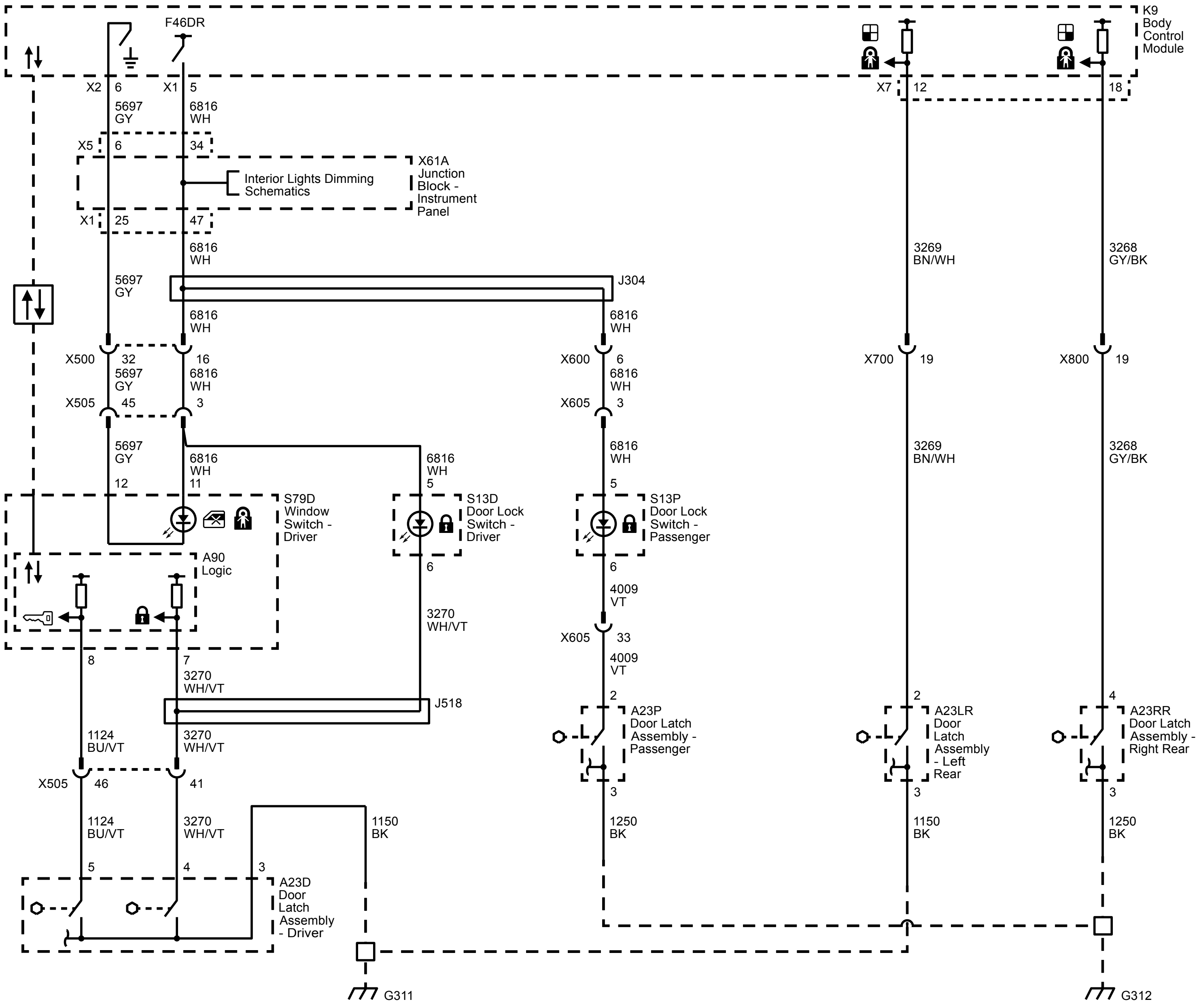
Door Lock and Ajar Switches

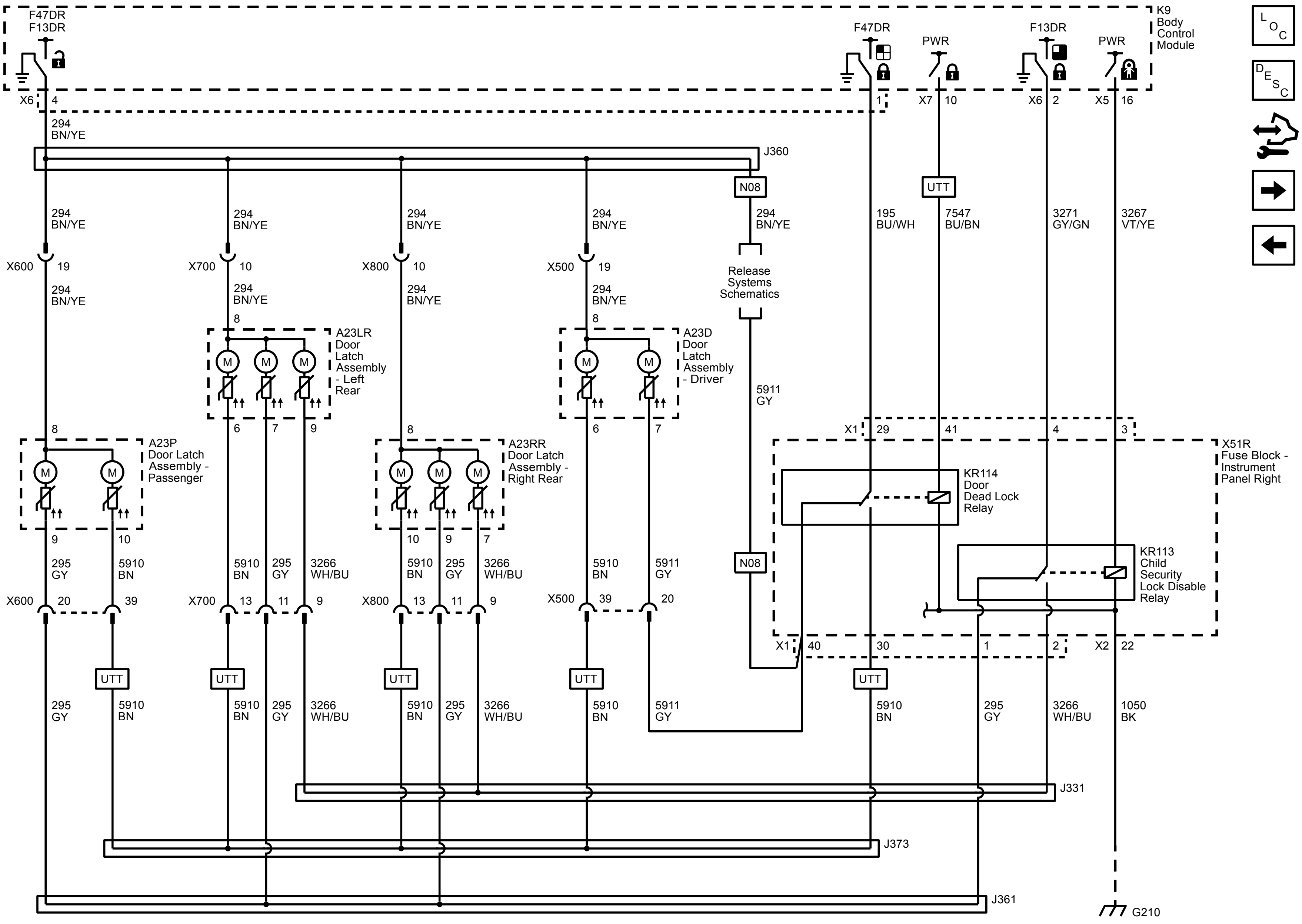

K9 Body Control Module
X7 15
X2 19
15
X7 14
25
P16 Instrument Cluster
P9 Driver Information Center Display
A90 Logic
780 BN/YE
781 BN/WH
X5 8
13
X61A Junction Block - Instrument Panel
X1 23
28
3265 YE/BN
780 BN/YE
781 BN/WH
244 YE/VT
245 BN/VT
X500 35
18
17
X600 18
17
M74D Window Motor - Driver
S79LR Window Switch - Left Rear
S79RR Window Switch - Right Rear
M74P Window Motor - Passenger
A90 Logic
A90 Logic
A90 Logic
A90 Logic
3265 YE/BN
780 BN/YE
781 BN/WH
244 YE/VT
245 BN/VT
X505 40
48
47
X605 48
47
3265 YE/BN
780 BN/YE
781 BN/WH
244 YE/VT
245 BN/VT
10
S79D Window Switch - Driver
2
3
S13D Door Lock Switch - Driver
6
2
2
6
2
3
S13P Door Lock Switch - Passenger
745 GY
747 GY
748 GY
746 GY
1
4
4
1
A23D Door Latch Assembly - Driver
1
A23LR Door Latch Assembly - Left Rear
5
A23RR Door Latch Assembly - Right Rear
5
A23P Door Latch Assembly - Passenger
3
3
3
3
1150 BK
1150 BK
1150 BK
1150 BK
1250 BK
1250 BK
1250 BK
G311
G312

Lock and Child Lock Status (X88 Chevrolet or Z88 GMC)

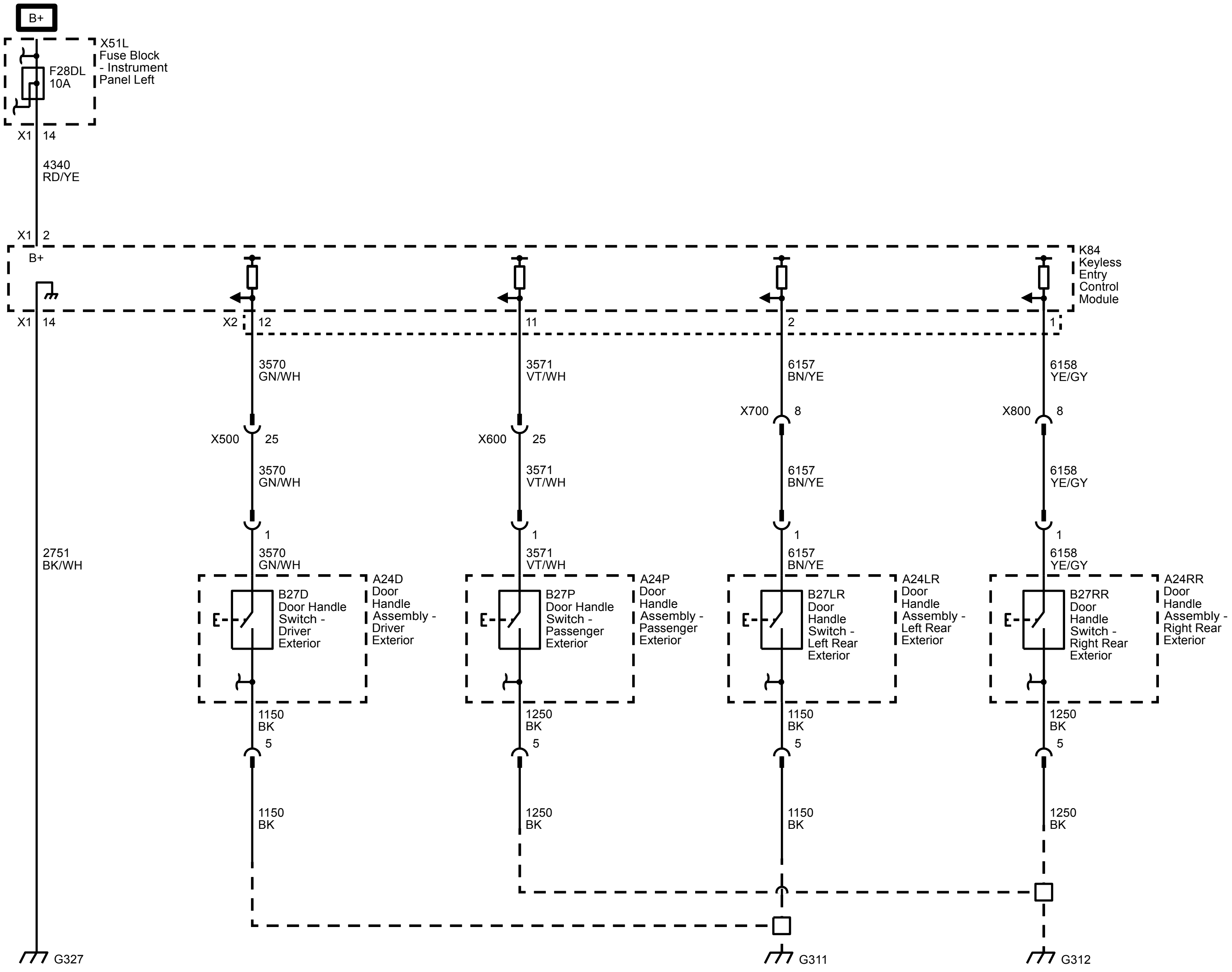

F46DR
K9
Body
Control
Module
X2
6
X1
5
X7
12
18
5697
GY
6816
WH
X5
6
34
Interior Lights Dimming
Schematics
X61A
Junction
Block -
Instrument
Panel
X1
25
47
5697
GY
6816
WH
3269
BN/WH
3268
GY/BK
X500
32
5697
GY
16
6816
WH
X505
45
3
5697
GY
6816
WH
X700
19
X800
19
12
11
S79D
Window
Switch -
Driver
A90
Logic
3269
BN/WH
3268
GY/BK
8
7
1124
BU/VT
3270
WH/VT
X505
46
41
2
A23LR
Door
Latch
Assembly
- Left
Rear
4
A23RR
Door Latch
Assembly -
Right Rear
1124
BU/VT
3270
WH/VT
5
4
A23D
Door
Latch
Assembly
- Driver
3
3
1150
BK
1250
BK
3
1150
BK
G311
G312

Lock and Child Lock Status (Z75 Cadillac)

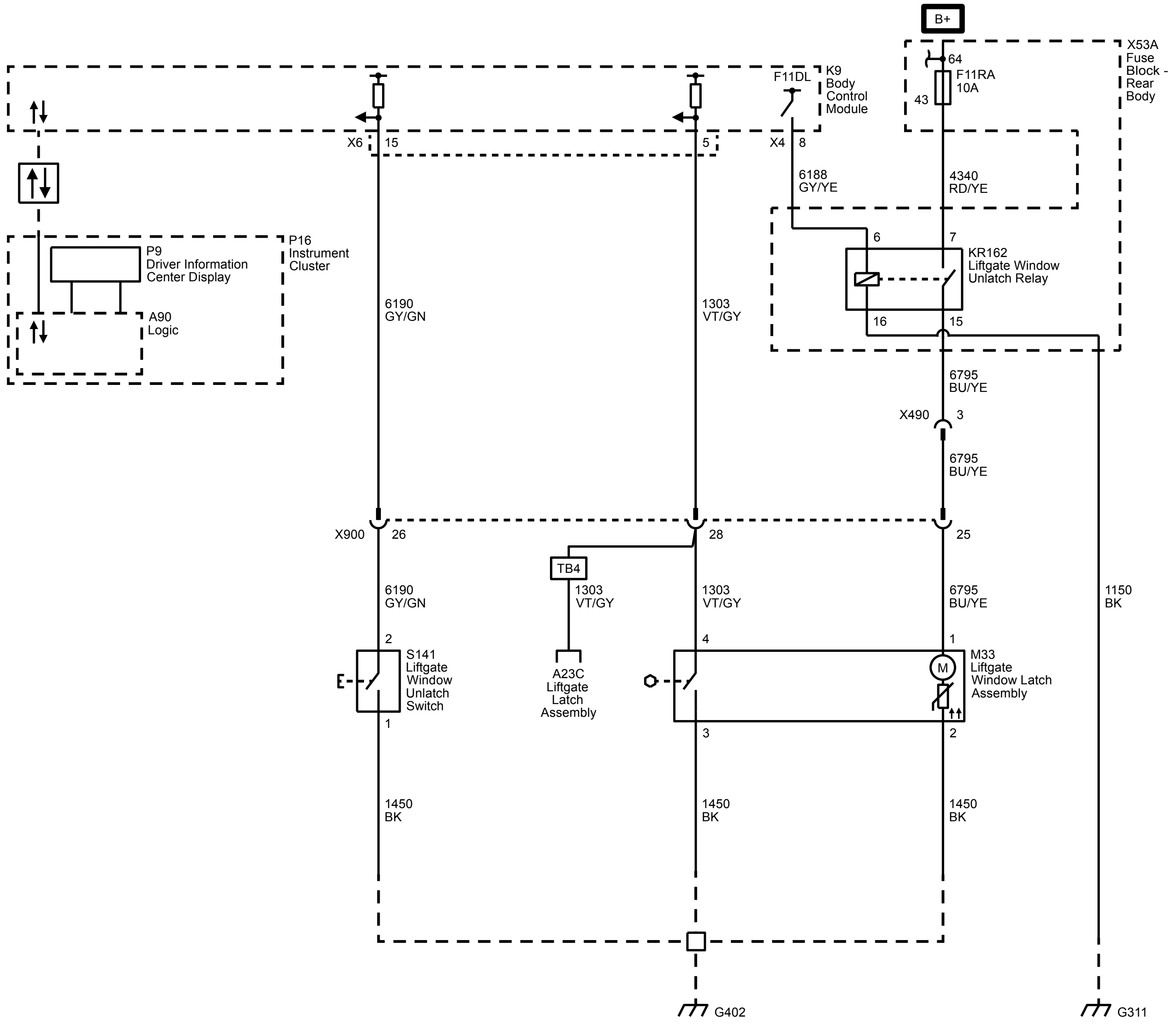

K9 Body Control Module
F46DR
X2 6
X1 5
5697 GY
6816 WH
X5 6 34
X61A Junction Block - Instrument Panel
Interior Lights Dimming Schematics
X1 25 47
6816 WH
5697 GY
J304
6816 WH
X500 32 16
5697 GY
6816 WH
X505 45 3
5697 GY
6816 WH
12
11
S79D Window Switch - Driver
A90 Logic
8
7
3270 WH/VT
J518
1124 BU/VT
3270 WH/VT
X505 46 41
1124 BU/VT
3270 WH/VT
5 4 3
A23D Door Latch Assembly - Driver
1150 BK
G311
6816 WH
5
S13D Door Lock Switch - Driver
6
3270 WH/VT
X600 6
6816 WH
X605 3
6816 WH
5
S13P Door Lock Switch - Passenger
6
4009 VT
X605 33
4009 VT
2
A23P Door Latch Assembly - Passenger
3
1250 BK
X7 12
18
3269 BN/WH
X700 19
3269 BN/WH
2
A23LR Door Latch Assembly - Left Rear
3
1150 BK
3268 GY/BK
X800 19
3268 GY/BK
4
A23RR Door Latch Assembly - Right Rear
3
1250 BK
G312


F47DR
F13DR
K9
Body
Control
Module
F47DR
PWR
F13DR
PWR
X6
4
1
X7
10
X6
2
X5
16
294
BN/YE
J360
N08
UTT
294
BN/YE
294
BN/YE
294
BN/YE
294
BN/YE
294
BN/YE
195
BU/WH
7547
BU/BN
3271
GY/GN
3267
VT/YE
X600
19
X700
10
X800
10
X500
19
Release
Systems
Schematics
294
BN/YE
294
BN/YE
294
BN/YE
294
BN/YE
8
8
A23LR
Door
Latch
Assembly
- Left
Rear
A23D
Door
Latch
Assembly
- Driver
M
5911
GY
6
7
9
6
7
8
8
A23P
Door Latch
Assembly -
Passenger
A23RR
Door Latch
Assembly -
Right Rear
X1
29
41
4
3
X51R
Fuse Block -
Instrument
Panel Right
KR114
Door
Dead Lock
Relay
9
10
10
9
7
KR113
Child
Security
Lock Disable
Relay
295
GY
5910
BN
5910
BN
295
GY
3266
WH/BU
5910
BN
295
GY
3266
WH/BU
5910
BN
5911
GY
N08
X600
20
39
X700
13
11
9
X800
13
11
9
X500
39
20
X1
40
30
1
2
X2
22
UTT
UTT
UTT
UTT
UTT
295
GY
5910
BN
5910
BN
295
GY
3266
WH/BU
5910
BN
295
GY
3266
WH/BU
5910
BN
5911
GY
5910
BN
295
GY
3266
WH/BU
1050
BK
J331
J373
J361
G210

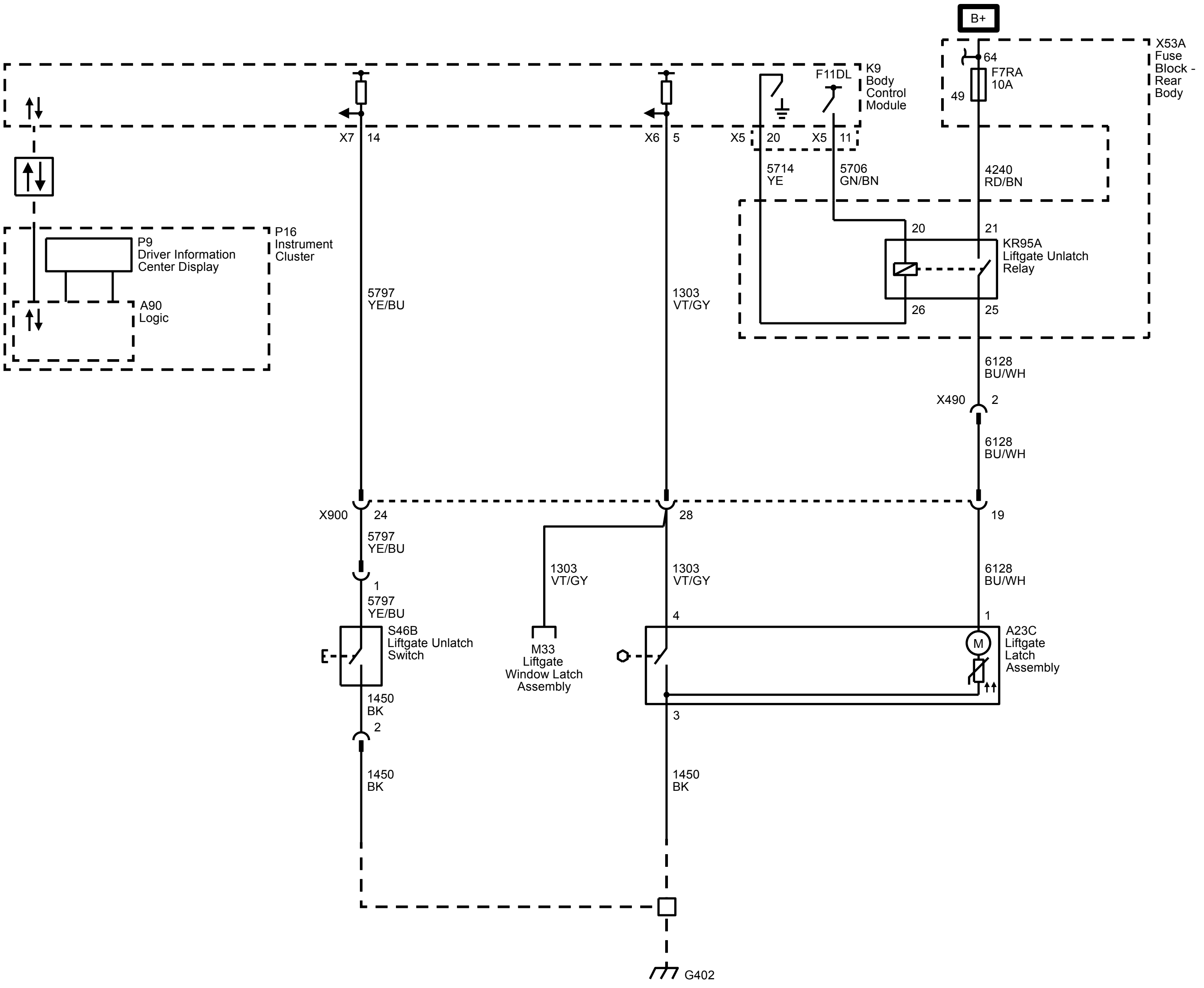
Door Handle Switches (ATH)


B+
X51L
Fuse Block
- Instrument
Panel Left
F28DL
10A
X1 14
4340
RD/YE
X1 2
B+
K84
Keyless
Entry
Control
Module
X1 14
X2 12
11
2
1
3570
GN/WH
3571
VT/WH
6157
BN/YE
6158
YE/GY
X700 8
X800 8
X500 25
X600 25
3570
GN/WH
3571
VT/WH
6157
BN/YE
6158
YE/GY
1
1
1
1
3570
GN/WH
3571
VT/WH
6157
BN/YE
6158
YE/GY
2751
BK/WH
B27D
Door Handle
Switch -
Driver
Exterior
A24D
Door
Handle
Assembly -
Driver
Exterior
B27P
Door Handle
Switch -
Passenger
Exterior
A24P
Door
Handle
Assembly -
Passenger
Exterior
B27LR
Door
Handle
Switch -
Left Rear
Exterior
A24LR
Door
Handle
Assembly -
Left Rear
Exterior
B27RR
Door
Handle
Switch -
Right Rear
Exterior
A24RR
Door
Handle
Assembly -
Right Rear
Exterior
1150
BK
5
1250
BK
5
1150
BK
5
1250
BK
5
1150
BK
1250
BK
1150
BK
1250
BK
G327
G311
G312

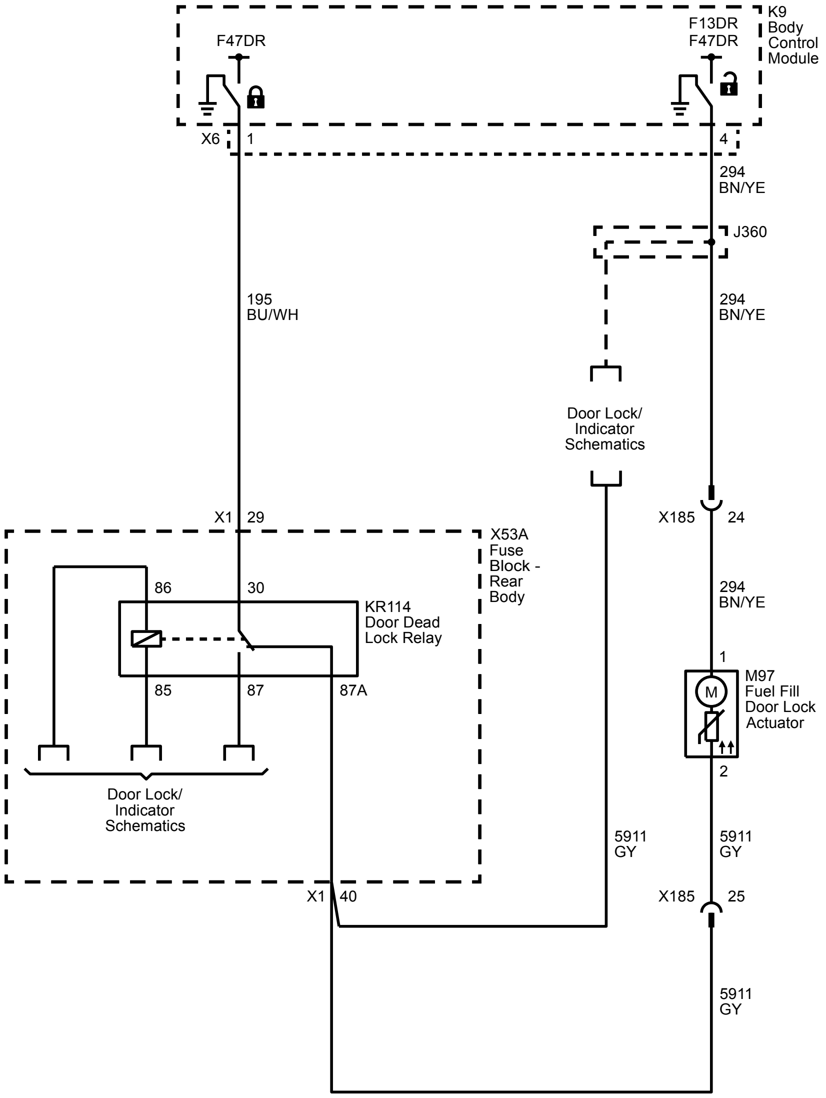
Liftglass Release


B+
X53A
Fuse
Block -
Rear
Body
64
F11RA
10A
43
K9
Body
Control
Module
F11DL
X6
15
5
X4
8
6188
GY/YE
4340
RD/YE
6
7
KR162
Liftgate Window
Unlatch Relay
16
15
6795
BU/YE
X490
3
6795
BU/YE
P9
Driver Information
Center Display
P16
Instrument
Cluster
A90
Logic
6190
GY/GN
1303
VT/GY
X900
26
28
25
TB4
6190
GY/GN
1303
VT/GY
1303
VT/GY
6795
BU/YE
1150
BK
2
S141
Liftgate
Window
Unlatch
Switch
1
A23C
Liftgate
Latch
Assembly
4
3
1
M
M33
Liftgate
Window Latch
Assembly
2
1450
BK
1450
BK
1450
BK
G402
G311

Liftgate Release (TB4)

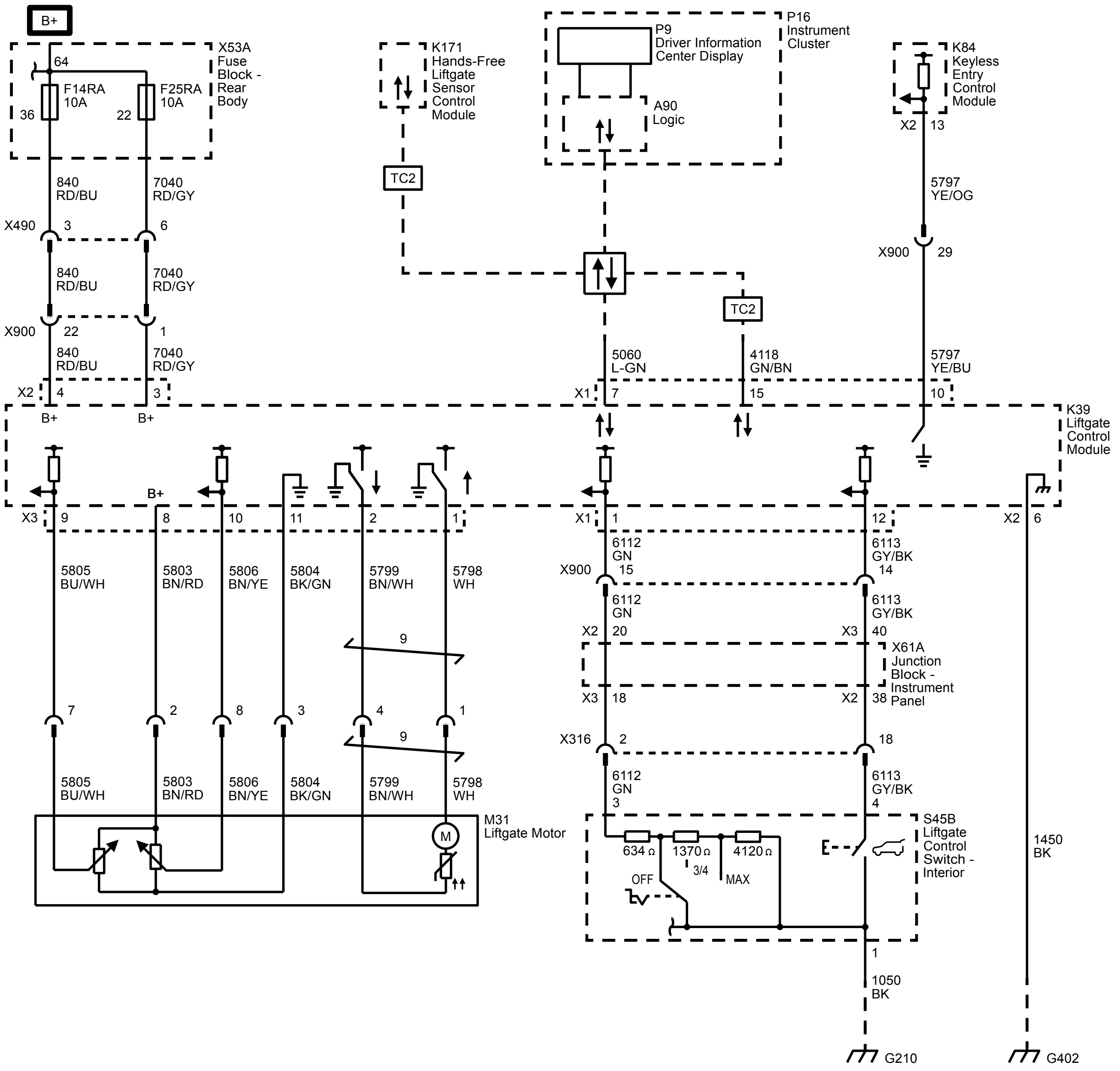

B+
64
F7RA
10A
49
X53A
Fuse
Block -
Rear
Body
F11DL
K9
Body
Control
Module
X7
14
X6
5
X5
20
X5
11
5714
YE
5706
GN/BN
4240
RD/BN
20
21
KR95A
Liftgate Unlatch
Relay
26
25
P9
Driver Information
Center Display
P16
Instrument
Cluster
A90
Logic
5797
YE/BU
1303
VT/GY
6128
BU/WH
X490
2
6128
BU/WH
X900
24
28
19
5797
YE/BU
1303
VT/GY
1303
VT/GY
6128
BU/WH
1
5797
YE/BU
S46B
Liftgate Unlatch
Switch
M33
Liftgate
Window Latch
Assembly
4
1
M
A23C
Liftgate
Latch
Assembly
3
1450
BK
2
1450
BK
1450
BK
G402

Fuel Door Lock (N08)

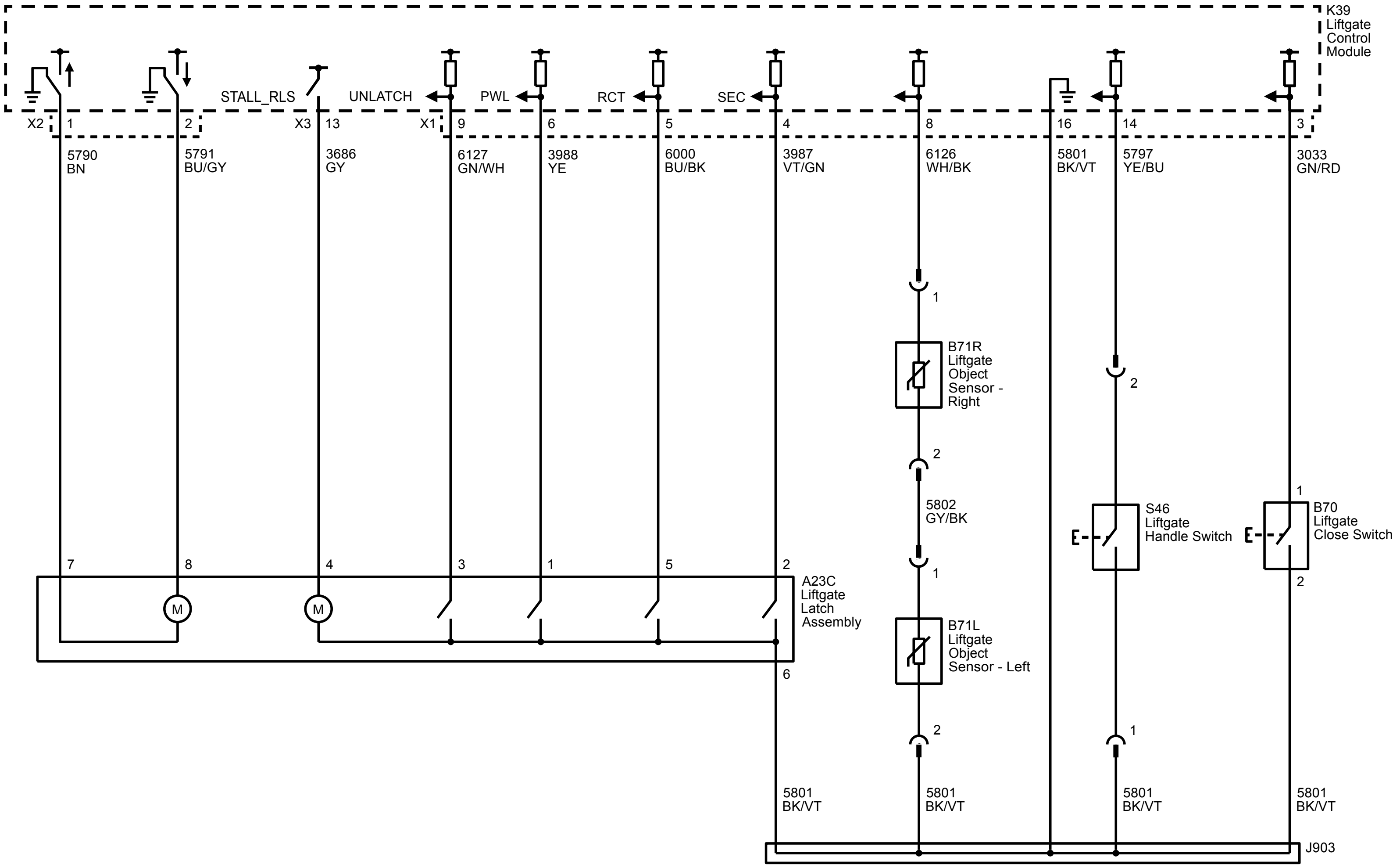

F47DR
F13DR
F47DR
K9
Body
Control
Module
X6
1
4
294
BN/YE
J360
294
BN/YE
195
BU/WH
Door Lock/
Indicator
Schematics
X1
29
X185
24
X53A
Fuse
Block -
Rear
Body
86
30
KR114
Door Dead
Lock Relay
294
BN/YE
1
M
M97
Fuel Fill
Door Lock
Actuator
85
87
87A
2
Door Lock/
Indicator
Schematics
5911
GY
5911
GY
X1
40
X185
25
5911
GY

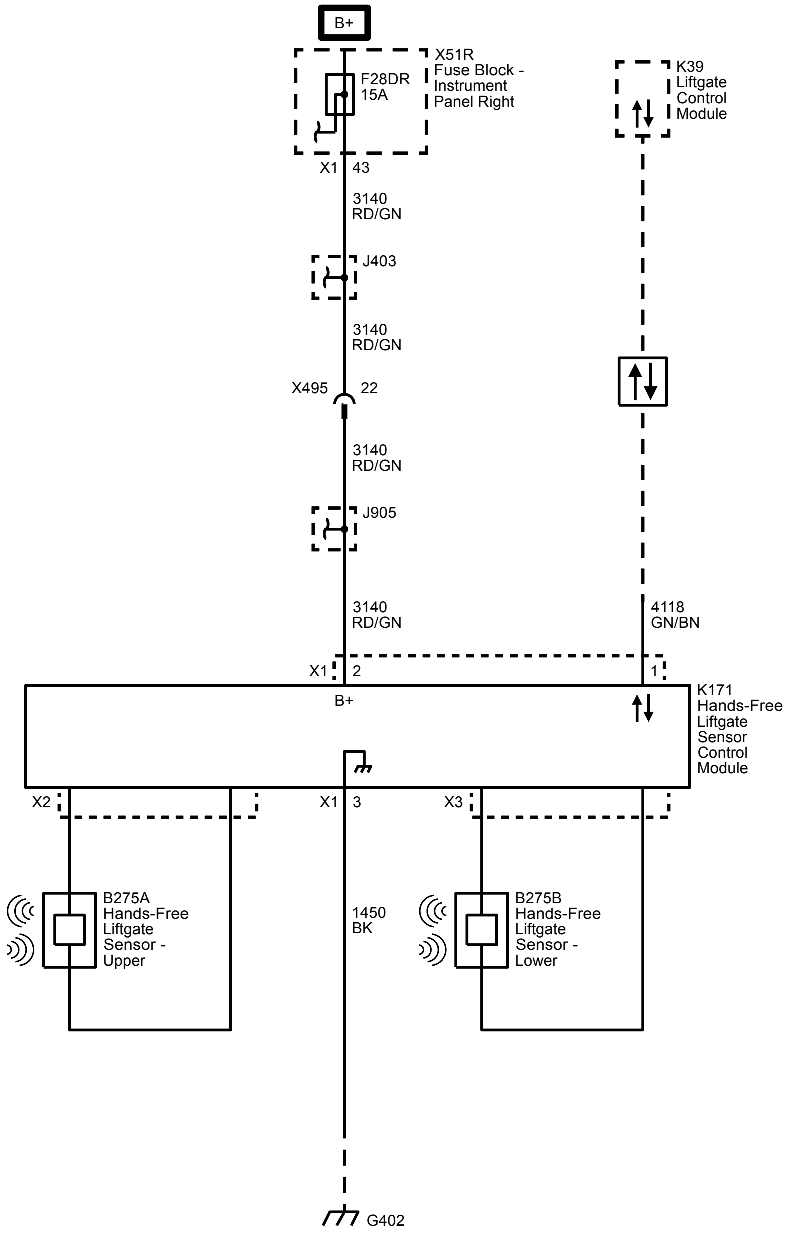
Liftgate Schematics

Forward Controls (TC2 or TB5)


B+
X53A Fuse Block - Rear Body
64
F14RA 10A
F25RA 10A
36
22
840 RD/BU
7040 RD/GY
X490 3 6
X900 22 1
X2 4 3
B+
K171 Hands-Free Liftgate Sensor Control Module
TC2
P16 Instrument Cluster
P9 Driver Information Center Display
A90 Logic
TC2
5060 L-GN
4118 GN/BN
X1 7 15 10
K84 Keyless Entry Control Module
X2 13
5797 YE/OG
X900 29
5797 YE/BU
K39 Liftgate Control Module
X3 9 8 10 11 2 1
5805 BU/WH
5803 BN/RD
5806 BN/YE
5804 BK/GN
5799 BN/WH
5798 WH
9
7 2 8 3 4 1
M31 Liftgate Motor
M
X1 1 12
X2 6
6112 GN
6113 GY/BK
X900 15 14
X2 20
X3 40
X61A Junction Block - Instrument Panel
X3 18
X2 38
X316 2 18
3 4
S45B Liftgate Control Switch - Interior
634 Ω
1370 Ω
4120 Ω
3/4
OFF
MAX
1
1050 BK
G210
1450 BK
G402

Actuation and Rear Controls (TC2 or TB5)


K39
Liftgate
Control
Module
STALL_RLS
UNLATCH
PWL
RCT
SEC
X2
1
2
X3
13
X1
9
6
5
4
8
16
14
3
5790
BN
5791
BU/GY
3686
GY
6127
GN/WH
3988
YE
6000
BU/BK
3987
VT/GN
6126
WH/BK
5801
BK/VT
5797
YE/BU
3033
GN/RD
1
B71R
Liftgate
Object
Sensor -
Right
2
2
5802
GY/BK
1
S46
Liftgate
Handle Switch
1
B70
Liftgate
Close Switch
2
7
8
4
3
1
5
2
M
M
A23C
Liftgate
Latch
Assembly
6
B71L
Liftgate
Object
Sensor - Left
2
1
5801
BK/VT
5801
BK/VT
5801
BK/VT
5801
BK/VT
J903

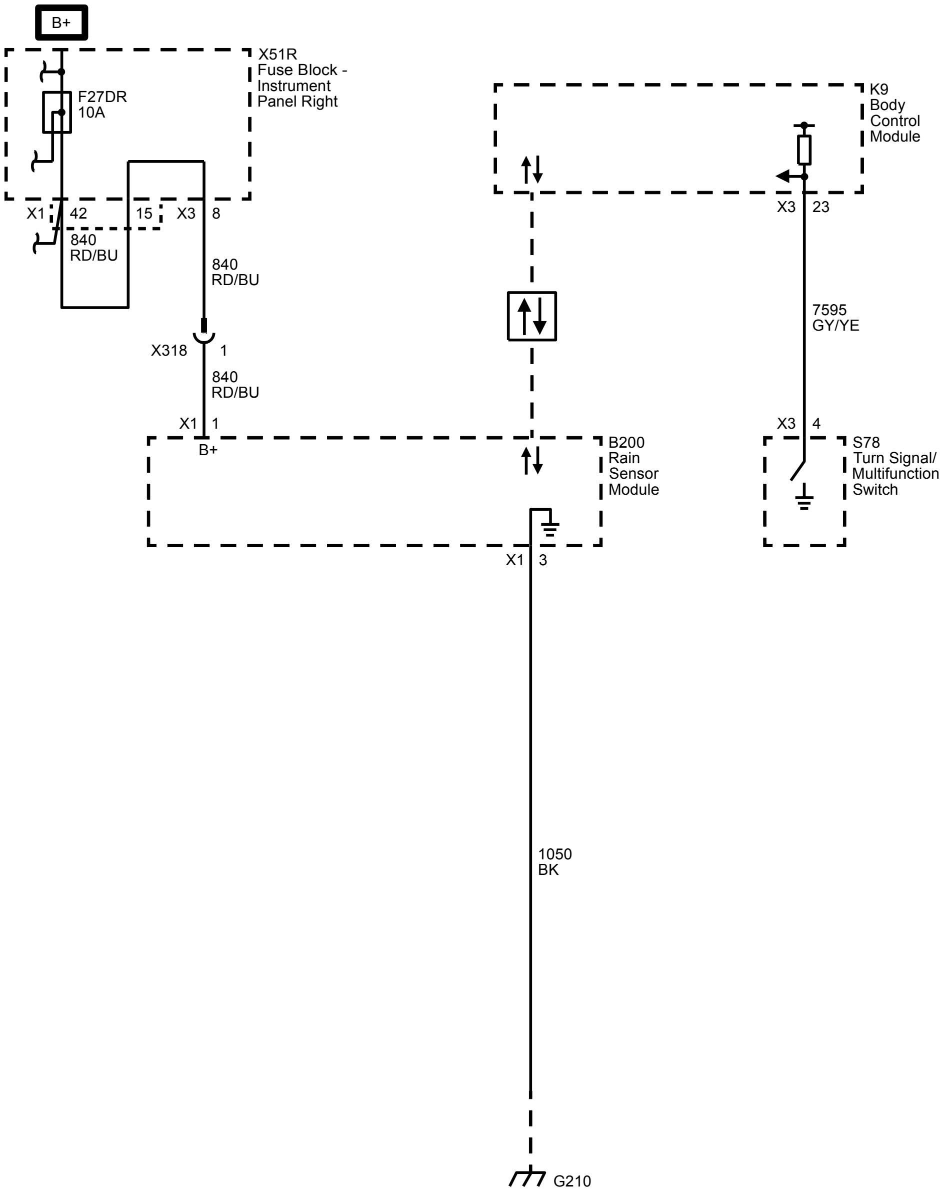

B+
X51R
Fuse Block -
Instrument
Panel Right
F28DR
15A
X1
43
3140
RD/GN
J403
3140
RD/GN
X495
22
3140
RD/GN
J905
3140
RD/GN
K39
Liftgate
Control
Module
4118
GN/BN
X1
2
1
B+
K171
Hands-Free
Liftgate
Sensor
Control
Module
X2
X1
3
X3
B275A
Hands-Free
Liftgate
Sensor -
Upper
1450
BK
B275B
Hands-Free
Liftgate
Sensor -
Lower
G402

Wipers and Washers

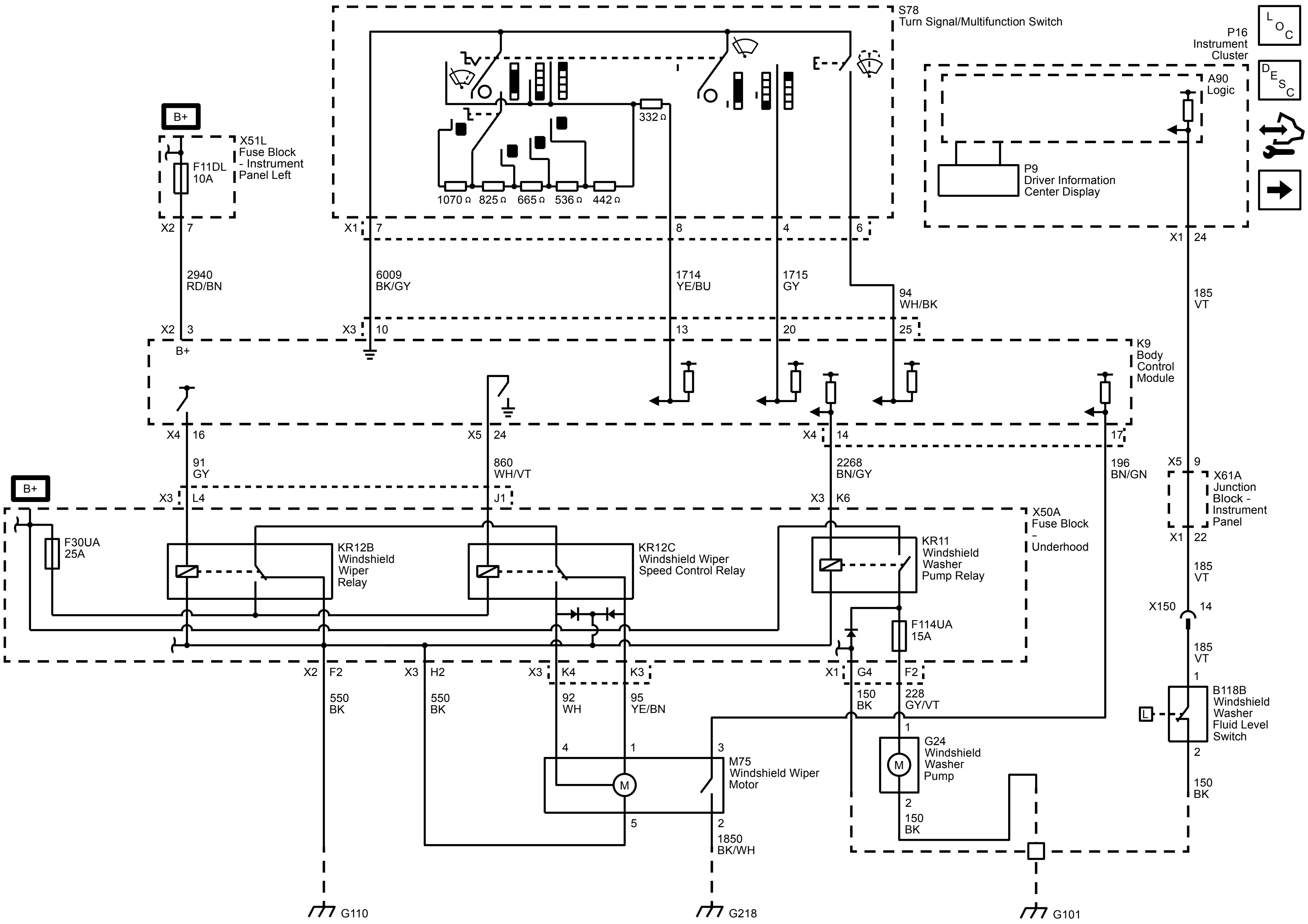
Schematic and Routing Diagrams

Wiper/Washer Schematics

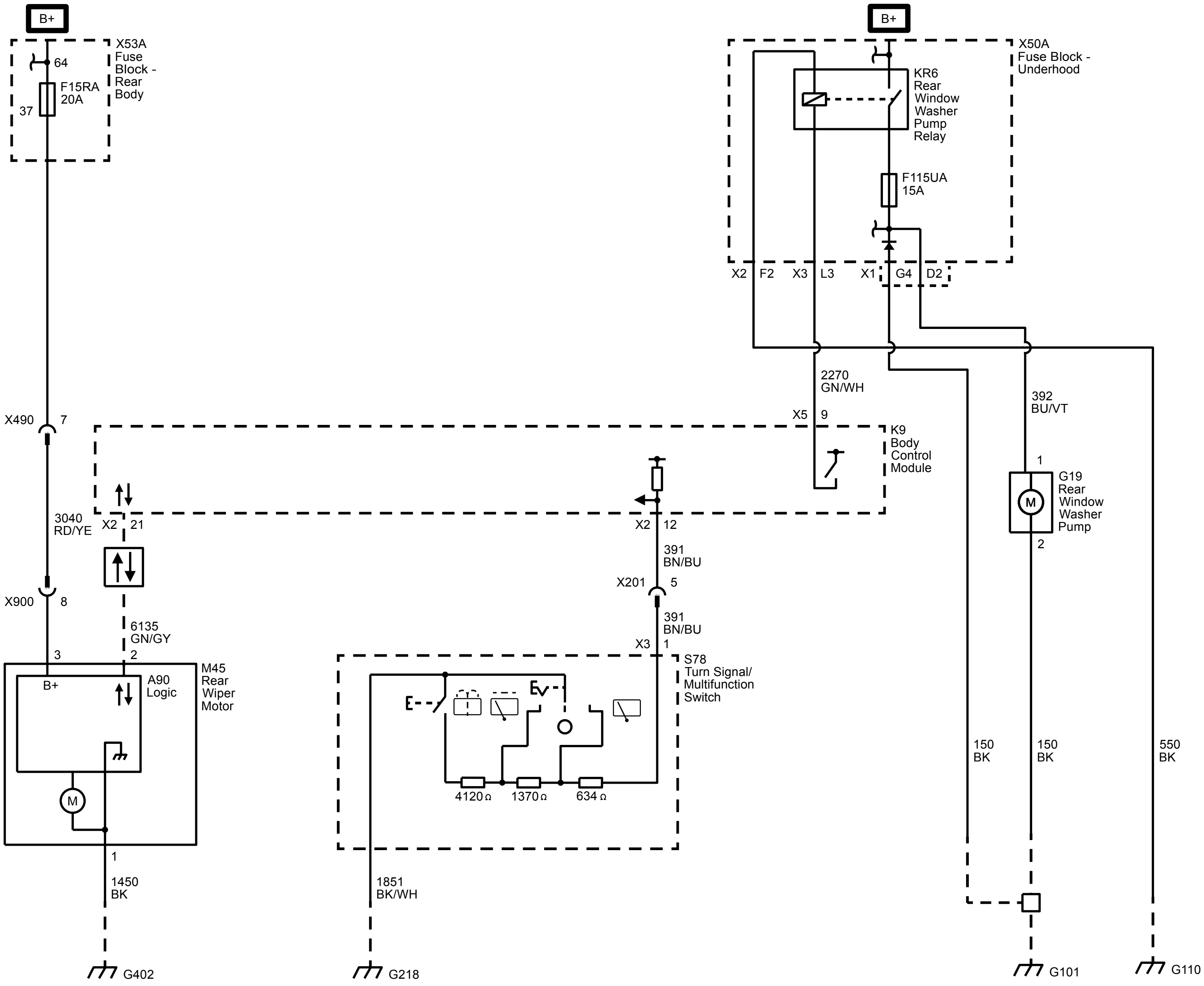
Rain Sense


B+
X51R
Fuse Block - Instrument Panel Right
F27DR
10A
X1
42
15
X3
8
840
RD/BU
840
RD/BU
X318
1
840
RD/BU
X1
1
B+
B200
Rain Sensor Module
X1
3
1050
BK
G210
K9
Body Control Module
X3
23
7595
GY/YE
X3
4
S78
Turn Signal/ Multifunction Switch

Front Wiper Motor and Washer Pump


S78
Turn Signal/Multifunction Switch
332 Ω
1070 Ω
825 Ω
665 Ω
536 Ω
442 Ω
X1 7
8
4
6
P16
Instrument
Cluster
L O C
D E S C
A90
Logic
P9
Driver Information
Center Display
X1 24
B+
X51L
Fuse Block
- Instrument
Panel Left
F11DL
10A
X2 7
2940
RD/BN
6009
BK/GY
1714
YE/BU
1715
GY
94
WH/BK
185
VT
X2 3
X3 10
13
20
25
B+
K9
Body
Control
Module
X4 16
X5 24
X4 14
17
91
GY
860
WH/VT
2268
BN/GY
196
BN/GN
X5 9
X61A
Junction
Block -
Instrument
Panel
X1 22
B+
X3 L4
J1
X3 K6
X50A
Fuse Block
-
Underhood
F30UA
25A
KR12B
Windshield
Wiper
Relay
KR12C
Windshield Wiper
Speed Control Relay
KR11
Windshield
Washer
Pump Relay
F114UA
15A
185
VT
X150 14
185
VT
X2 F2
X3 H2
X3 K4
K3
X1 G4
F2
550
BK
550
BK
92
WH
95
YE/BN
150
BK
228
GY/VT
1
B118B
Windshield
Washer
Fluid Level
Switch
L
4
1
3
M75
Windshield Wiper
Motor
M
1
G24
Windshield
Washer
Pump
M
2
5
2
2
150
BK
1850
BK/WH
150
BK
G110
G218
G101

Rear Wiper Motor and Washer Pump


B+
X53A
Fuse
Block -
Rear
Body
64
F15RA
20A
37
B+
X50A
Fuse Block -
Underhood
KR6
Rear
Window
Washer
Pump
Relay
F115UA
15A
X2
F2
X3
L3
X1
G4
D2
2270
GN/WH
392
BU/VT
X490
7
X5
9
K9
Body
Control
Module
3040
RD/YE
X2
21
X2
12
1
G19
Rear
Window
Washer
Pump
2
391
BN/BU
X201
5
X900
8
6135
GN/GY
391
BN/BU
X3
1
3
2
M45
Rear
Wiper
Motor
B+
A90
Logic
S78
Turn Signal/
Multifunction
Switch
M
4120 Ω
1370 Ω
634 Ω
150
BK
150
BK
550
BK
1
1450
BK
1851
BK/WH
G402
G218
G101
G110

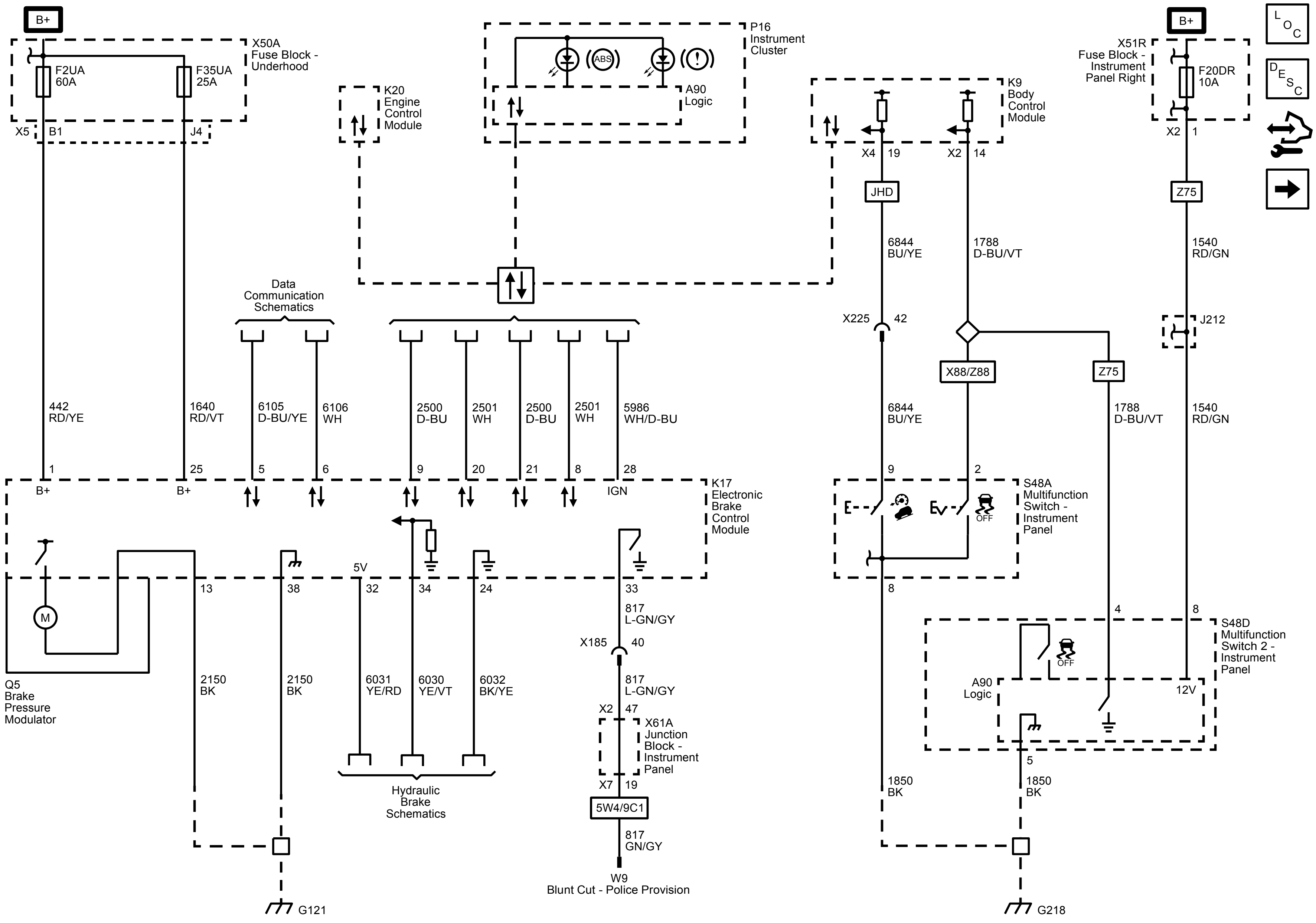
Brakes

Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW

Schematic and Routing Diagrams

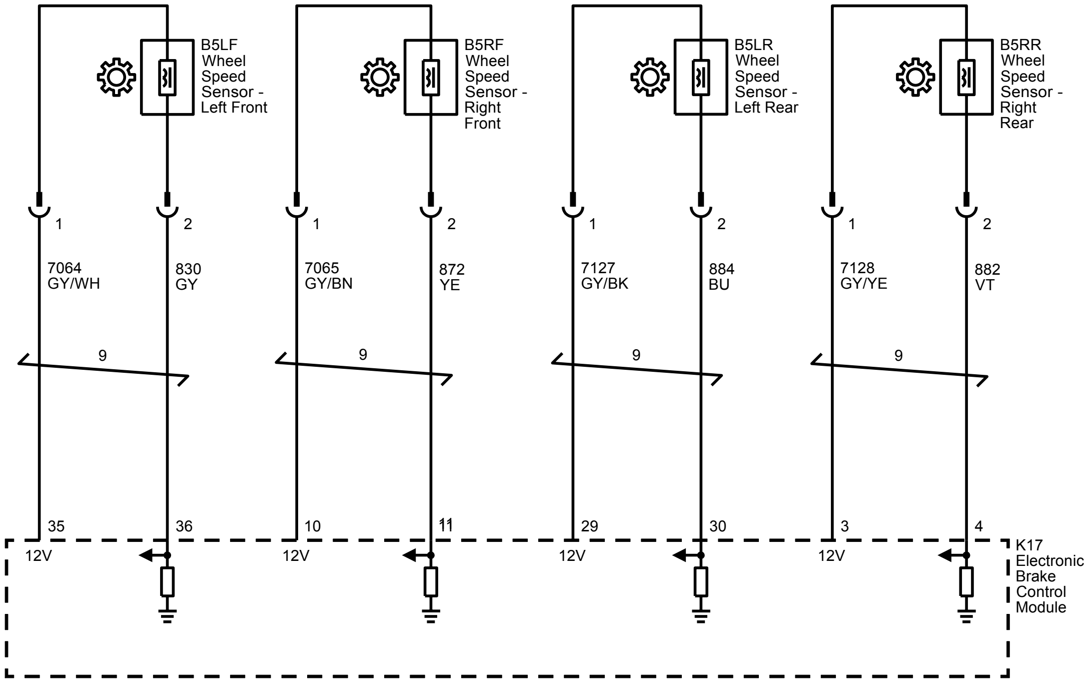
Antilock Brake System Schematics

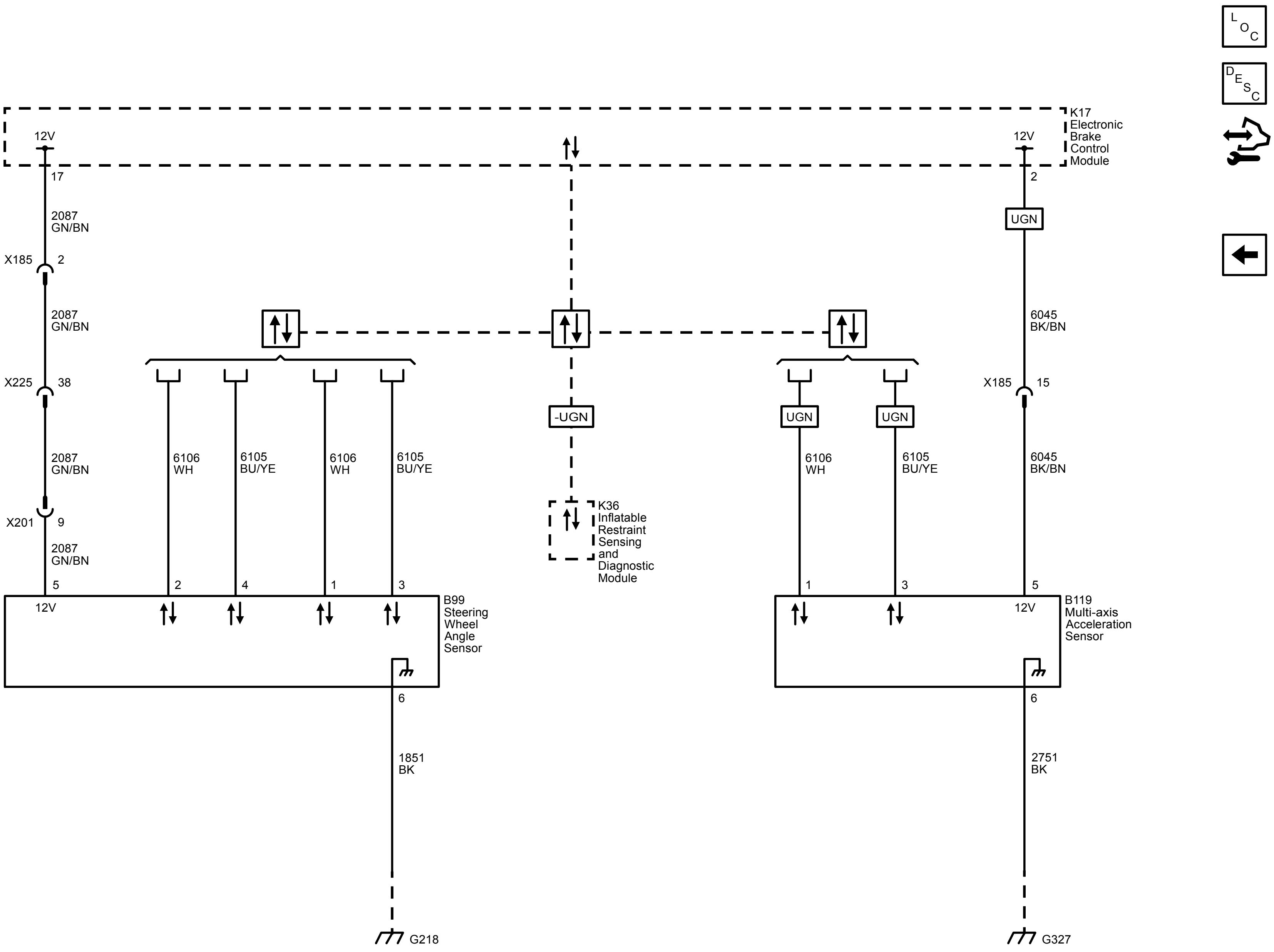
Power, Ground, Serial Data and Traction Controls


B+
X50A
Fuse Block -
Underhood
F2UA
60A
F35UA
25A
X5
B1
J4
K20
Engine
Control
Module
P16
Instrument
Cluster
ABS
A90
Logic
K9
Body
Control
Module
X4
19
X2
14
JHD
6844
BU/YE
1788
D-BU/VT
X225
42
X88/Z88
Z75
B+
X51R
Fuse Block -
Instrument
Panel Right
F20DR
10A
X2
1
Z75
1540
RD/GN
J212
L
O
C
D
E
S
C
Data
Communication
Schematics
442
RD/YE
1640
RD/VT
6105
D-BU/YE
6106
WH
2500
D-BU
2501
WH
2500
D-BU
2501
WH
5986
WH/D-BU
1
25
5
6
9
20
21
8
28
B+
B+
IGN
K17
Electronic
Brake
Control
Module
M
Q5
Brake
Pressure
Modulator
5V
13
38
32
34
24
33
2150
BK
2150
BK
6031
YE/RD
6030
YE/VT
6032
BK/YE
Hydraulic
Brake
Schematics
817
L-GN/GY
X185
40
817
L-GN/GY
X2
47
X61A
Junction
Block -
Instrument
Panel
X7
19
5W4/9C1
817
GN/GY
W9
Blunt Cut - Police Provision
G121
6844
BU/YE
9
2
S48A
Multifunction
Switch -
Instrument
Panel
OFF
8
1788
D-BU/VT
1540
RD/GN
4
8
S48D
Multifunction
Switch 2 -
Instrument
Panel
OFF
A90
Logic
12V
5
1850
BK
1850
BK
G218

Wheel Speed Signals

LOC
DESC


B5LF
Wheel
Speed
Sensor -
Left Front
B5RF
Wheel
Speed
Sensor -
Right
Front
B5LR
Wheel
Speed
Sensor -
Left Rear
B5RR
Wheel
Speed
Sensor -
Right
Rear
1
2
1
2
1
2
1
2
7064
GY/WH
830
GY
7065
GY/BN
872
YE
7127
GY/BK
884
BU
7128
GY/YE
882
VT
9
9
9
9
35
36
10
11
29
30
3
4
12V
12V
12V
12V
K17
Electronic
Brake
Control
Module

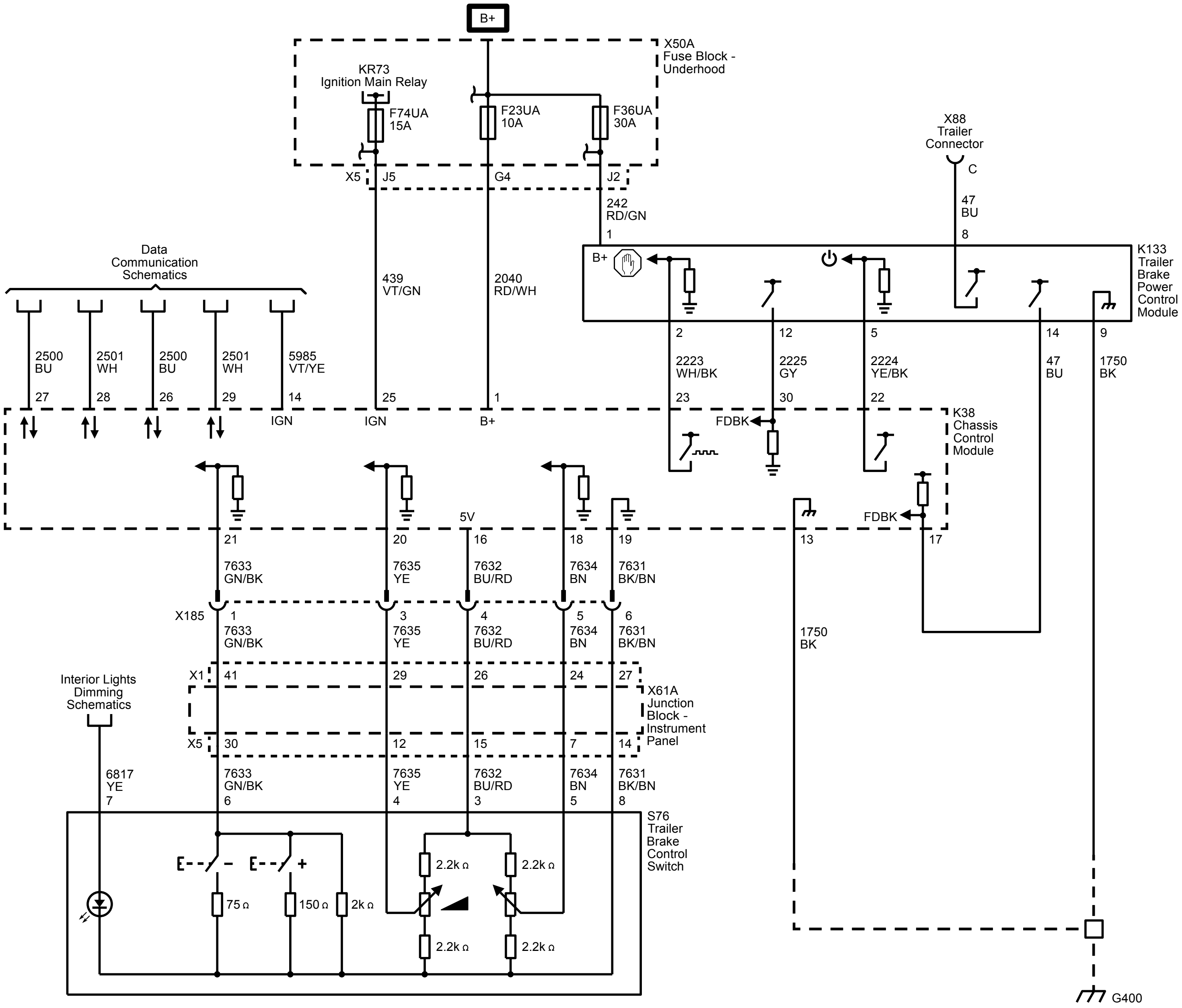

K17
Electronic
Brake
Control
Module
12V
17
2087
GN/BN
X185
2
2087
GN/BN
X225
38
2087
GN/BN
X201
9
2087
GN/BN
5
12V
6106
WH
6105
BU/YE
6106
WH
6105
BU/YE
2
4
1
3
B99
Steering
Wheel
Angle
Sensor
6
1851
BK
G218
-UGN
K36
Inflatable
Restraint
Sensing
and
Diagnostic
Module
UGN
UGN
6106
WH
6105
BU/YE
1
3
12V
2
UGN
6045
BK/BN
X185
15
6045
BK/BN
5
B119
Multi-axis
Acceleration
Sensor
6
2751
BK
G327
L O C
D E S C

Trailer Brake Controls

Schematic and Routing Diagrams

Trailer Brake Control Schematics

Trailer Brake


B+
X50A Fuse Block - Underhood
KR73 Ignition Main Relay
F74UA 15A
F23UA 10A
F36UA 30A
X5
J5
G4
J2
242 RD/GN
X88 Trailer Connector
C
47 BU
8
1
K133 Trailer Brake Power Control Module
B+
2
12
5
14
9
Data Communication Schematics
439 VT/GN
2040 RD/WH
2500 BU
2501 WH
2500 BU
2501 WH
5985 VT/YE
27
28
26
29
14
25
1
IGN
IGN
B+
2223 WH/BK
2225 GY
2224 YE/BK
47 BU
1750 BK
23
30
22
FDBK
K38 Chassis Control Module
FDBK
5V
21
20
16
18
19
13
17
7633 GN/BK
7635 YE
7632 BU/RD
7634 BN
7631 BK/BN
X185
1
3
4
5
6
7633 GN/BK
7635 YE
7632 BU/RD
7634 BN
7631 BK/BN
1750 BK
X1
41
29
26
24
27
X61A Junction Block - Instrument Panel
X5
30
12
15
7
14
Interior Lights Dimming Schematics
6817 YE
7
7633 GN/BK
6
7635 YE
4
7632 BU/RD
3
7634 BN
5
7631 BK/BN
8
S76 Trailer Brake Control Switch
–
+
75 Ω
150 Ω
2k Ω
2.2k Ω
2.2k Ω
2.2k Ω
2.2k Ω
G400

Description and Operation

Trailer Brake Controls Description and Operation

A trailer brake control system is used to control the amount of trailer braking power that is made available to trailers with brakes that require a controlled electrical output signal for actuation.

The power output to the trailer brakes is based on both the amount of braking being applied by the vehicle's brake system and on the type of trailer brakes detected.

The Trailer Brake Control System is compatible with two types of Trailer Brake Systems as listed below:

1. **Electric Brakes** A controlled electrical output signal energizes an electric-magnet/lever arm assembly that directly actuates the brake mechanism. The GDS name for this system is "Electromagnetic Brakes".
2. **Electric Over Hydraulic Brakes** A controlled electrical output signal energizes a remote, trailer mounted hydraulic pump to build brake pressure in a closed hydraulic system on the trailer. The hydraulic fluid pressure actuates the brake mechanism. The GDS name for this system is "Electrohydraulic Brakes".

Trailer Brake Output Versus Trailer Brake Type

- The trailer brake system characterizes the trailer brakes as either Electric Brake or Electric Over Hydraulic Brake automatically. This characterization may be affected by the number, type, and age of the trailer brake magnets, as well as any other devices installed on the trailer brakes (i.e. adapters for Electric Over Hydraulic brake functionality).
- The trailer brake system is fully operational with either characterization.
- Some features of the trailer brake system may be different based on the trailer brake type characterization. An example of this is at zero speed, where pressing the service brake pedal will produce output when the trailer brakes are characterized as Electric Brakes, but not when characterized as Electric Over Hydraulic Brakes.
- Sliding the manual trailer brake apply lever will produce output at zero speed for either characterization.

The user gain allows the driver to adjust the amount of trailer brake output to match the trailer load and road surface. The controller determines the desired trailer brake output and provides a control signal to the K133 Trailer Brake Power Control Module. The K133 Trailer Brake Power Control Module amplifies the signal and provides the output required to activate the Electric or Electric Over Hydraulic trailer brakes.

The trailer brake control can support up to a maximum of four axles with electric trailer brakes (8 brake magnets).

Connecting a trailer that is not compatible with the trailer brake system may result in reduced or complete loss of trailer braking. There may be an increase in stopping distance or trailer instability which could result in personal injury or damage to the vehicle, trailer or other property. An aftermarket controller may be available for use with trailers with surge or air trailer brake systems.

To determine the type of brakes on your trailer and the availability of controllers, check with your trailer manufacturer or dealer. Do not power up an aftermarket controller with the factory brake controller at the same time.

The vehicle is equipped with the following trailer braking components:

- K38 Chassis Control Module
- K133 Trailer Brake Power Control Module
- S76 Trailer Brake Control Panel
- Manual Trailer Brake Apply
- Trailer Gain Adjustment
- Trailer Brake Driver Information Center Display

Chassis Control Module

The K38 Chassis Control Module (CCM) is a serviceable GMLAN module. The chassis control module sends the low power commanded duty cycle signal to the trailer brake power control module. The trailer brake power control module amplifies the signal and provides an output that is required to drive the trailer brakes.

Trailer Brake Power Control Module

The K133 Trailer Brake Power Control Module (TBPM) is a solid state power switching module that supplies power to the trailer brakes at the input command duty cycle. Diagnostic messages are sent from the TBPM to the CCM on a dedicated LIN bus.

Trailer Brake Control Panel

The S76 Trailer Brake Control Panel contains the trailer gain and manual apply switches. It is located on the instrument panel to the left of the steering column. Refer to the instrument panel overview for more information on the location. The control panel and switches allows you to adjust the amount of output, referred to as trailer gain, available to the Electric or Electric Over Hydraulic brakes. It also allows you to manually apply the trailer brakes. The trailer brake control panel and switches are used along with the trailer brake display page on the driver information center to adjust and display power output to the trailer brakes.

Manual Trailer Brake Apply

The manual trailer brake apply lever is located on the S76 Trailer Brake Control Panel and is used to apply the trailer's Electric or Electric Over Hydraulic brakes independent of the vehicle's brakes. This lever is used in the trailer gain adjustment procedure to properly adjust the power output to the trailer brakes.

Sliding the lever to the left will apply only the trailer brakes. The power output to the trailer is indicated in the trailer brake display page in the Driver Information Center (DIC). If the vehicle's service brakes are applied while using the manual trailer brake apply lever, the trailer output power will be the greater of the two.

The trailer and the vehicle's brake lamps will come on when either the vehicle's braking or manual trailer brakes are applied.

Trailer Gain Adjustment

Trailer gain should be set for a specific trailering condition and must be adjusted any time vehicle loading, trailer loading or road surface conditions change. It is important to re-adjust trailer gain any time the tow vehicle, trailer loading or road surface conditions change or it you notice trailer wheel lock-up at any time while you are towing.

Setting the trailer gain properly is needed for the best trailer stopping performance. A trailer that is over-gained may result in locked trailer brakes. A trailer that is under-gained may result in not enough trailer braking. Both of these conditions may result in poor stopping and stability of the vehicle and trailer.

Trailer Gain Adjustment Procedure

- Adjust trailer gain in 0.5 step increments up to 10 gain setting by using the gain adjustment +/− buttons on the trailer brake control panel switch. Pressing and holding a gain button will cause the trailer gain to continuously increment or decrement. To turn the output to the trailer off, set the gain to zero.
- Drive the tow vehicle and trailer combination on a level surface representative of the towing condition and free of traffic at approximately 32–40 km/h (20–25 mph) and fully apply the manual trailer brake apply lever mechanism located on the trailer brake control panel switch. Adjusting the trailer gain at slower speeds may result in an incorrect gain setting.
- Adjust the trailer gain to just below the threshold of trailer wheel lock-up . Trailer wheel lock-up may not occur if towing a heavily loaded trailer. In this case, adjust the trailer gain to the highest allowable setting for the towing condition.

Hill Start Assist

The hill start assist allows the driver to launch the vehicle without a roll back when the driver is moving their foot from the brake pedal to the accelerator pedal. Refer to the hill start assist system in the anti-lock brake system description and operation document for more information.

Trailer Sway Control

The trailer sway control can detect the vehicle yaw instability, caused by an attached trailer. Refer to the trailer sway control system in the anti-lock brake system description and operation document for more information.

Driver Information Center Indicators and Messages

The following indicators are used to inform the driver of several different conditions:

Trailer Connected

This message will be briefly displayed when a trailer with Electric or Electric Over Hydraulic brakes is first connected to the vehicle. This message will automatically turn off in about ten seconds. The driver can also acknowledge this message before it automatically turns off.

Check Trailer Wiring

This message will be displayed if:

- The system detects that a trailer with Electric or Electric Over Hydraulic brakes is connected to the vehicle and then the trailer harness becomes disconnected from the vehicle.
- The trailer connection is recognized initially and then a disconnect occurs while the vehicle is stationary. This message will automatically turn off in about thirty seconds. This message will also turn off if the driver acknowledges this message off or if the trailer harness is reconnected.
- A disconnect of the trailer wiring harness occurs while the vehicle is moving. The Check Trailer Wiring message will continue until the ignition is turned off. The message will also turn off if the driver acknowledges this message off or it the trailer harness is re-connected or repairs are completed.
- There is an electrical fault in the wiring to the electric trailer brakes. The Check Trailer Wiring message will continue as long as there is an electrical fault in the trailer wiring. This message will also turn off if the driver acknowledges this message off.
- A poor connection at the 7–way connector may cause the Check Trailer Wiring message. Some aftermarket 7–way trailer side connector adapters or plugs may cause deformation or excessive wear to the vehicle’s trailer terminals. It is recommended that you use an OEM or Pollak heavy duty 7–way trailer side connector adapter.

Service Trailer Brake System

This message will be displayed when there is a problem with the trailer brake control system. The trailer brake system may not be fully functional, or may not be functioning at all. The trailer brake system is designed to provide trailer braking, if possible, even when faults prevent it from being fully functional. This reduced functionality includes:

1. Providing trailer braking when the master cylinder pressure or brake pedal switch are faulted.
2. Providing trailer braking when hill start assist and trailer sway control communication is faulted.
3. Providing trailer braking when certain manual trailer brake apply lever faults are present.

These conditions should be repaired to allow the trailer brake system to be fully functional.

Trailer Gain and Output Display

This display menu can be accessed by scrolling through the DIC menu, or any time the trailer gain +/− button is depressed, or the manual trailer brake apply lever is actuated. The trailer output is displayed from 0 to full output and indicates the output power provided to the trailer brakes, relative to the gain setting.

After the electrical connection is made to a trailer equipped with electric brakes or electric over hydraulic brakes, the TRAILER CONNECTED message will be displayed momentarily on the DIC. The Trailer Brake Display Page can be selected on the DIC showing TRAILER GAIN and OUTPUT, after all vehicle related service messages are acknowledged by the driver. Depending on which instrument panel cluster is in the vehicle, the DIC may display dashed lines, a greyed out display, or it may be blank signifying a disconnected trailer or a trailer brake fault condition.

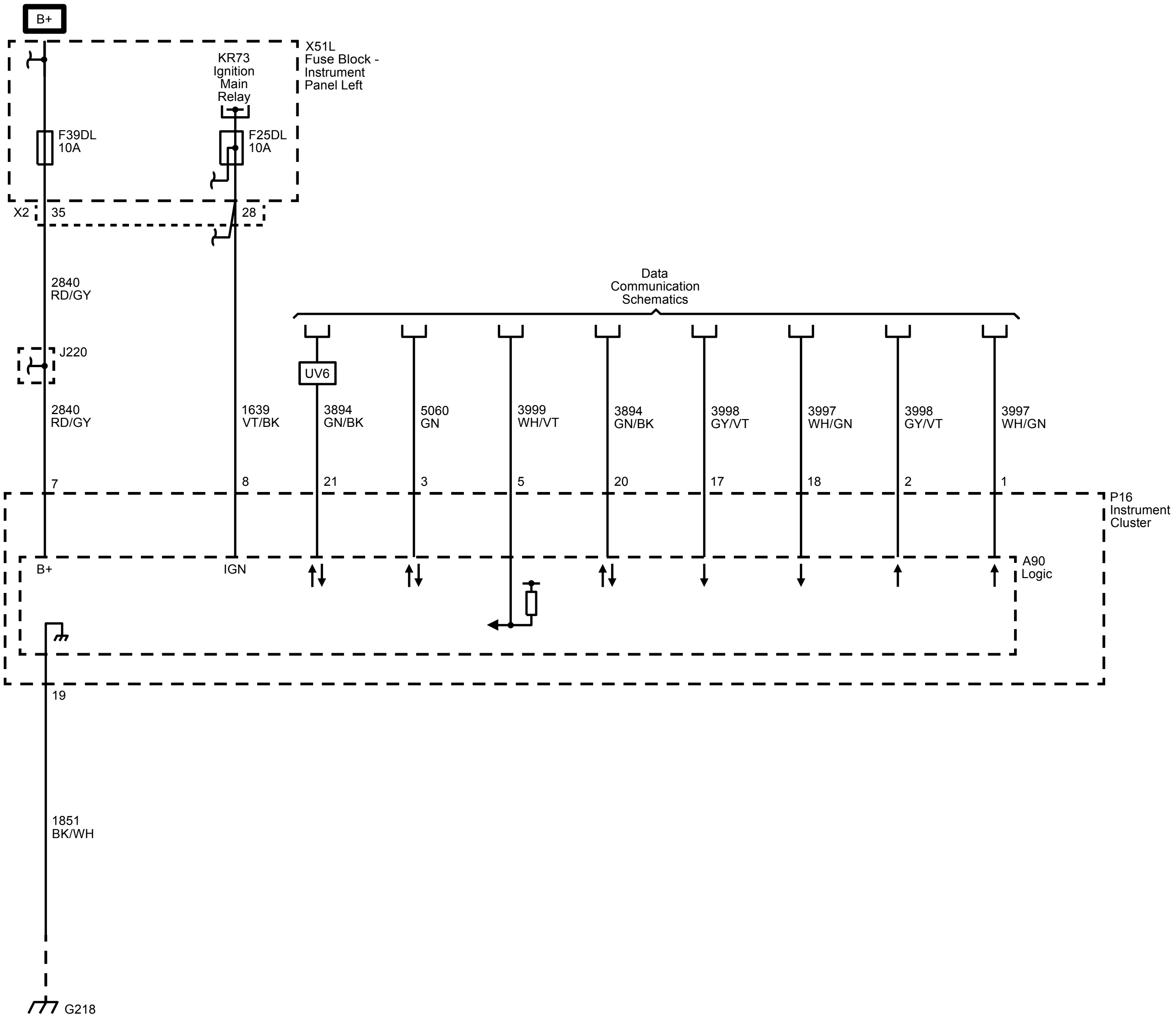
Driver Information and Entertainment

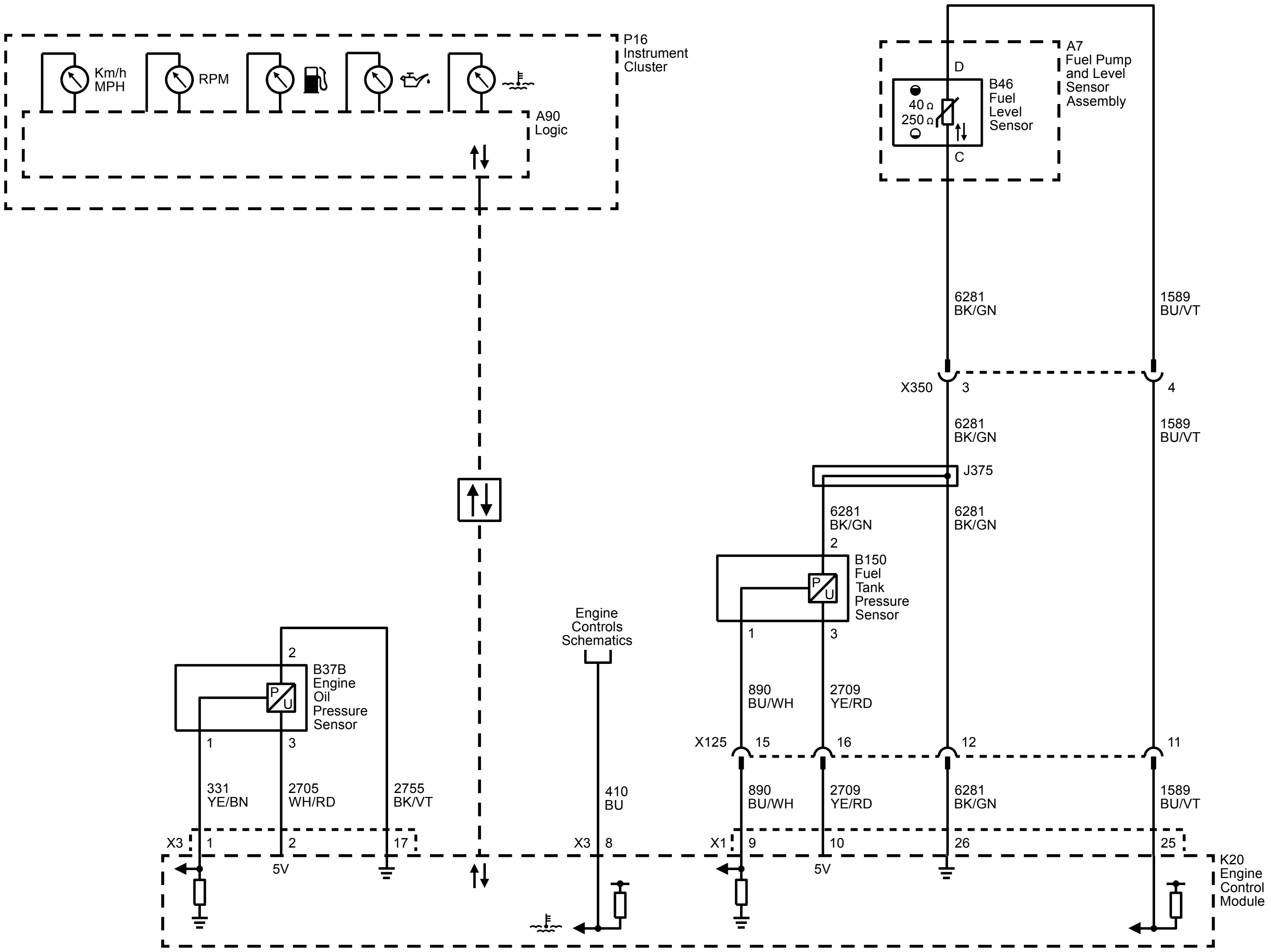
Displays and Gauges

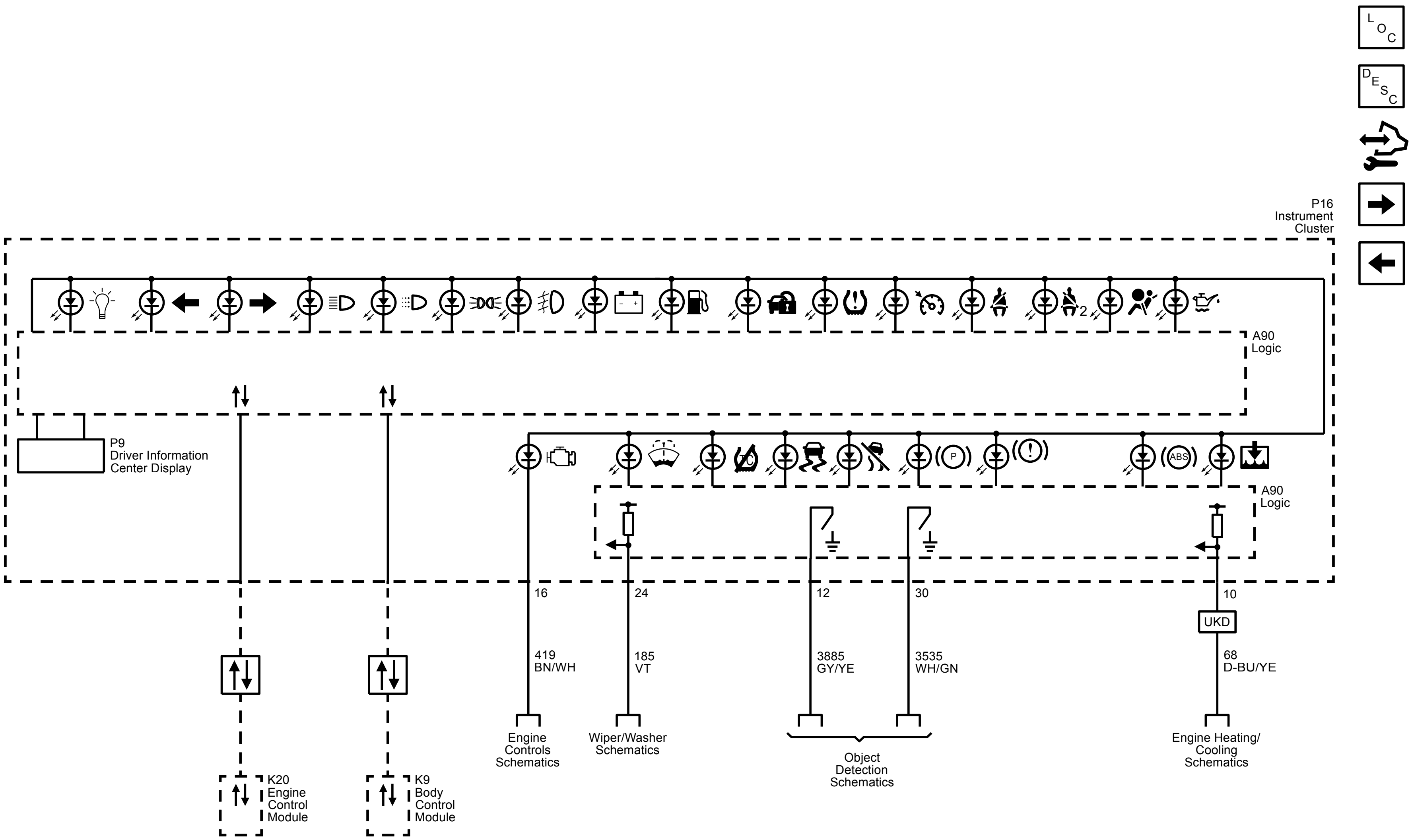
Schematic and Routing Diagrams

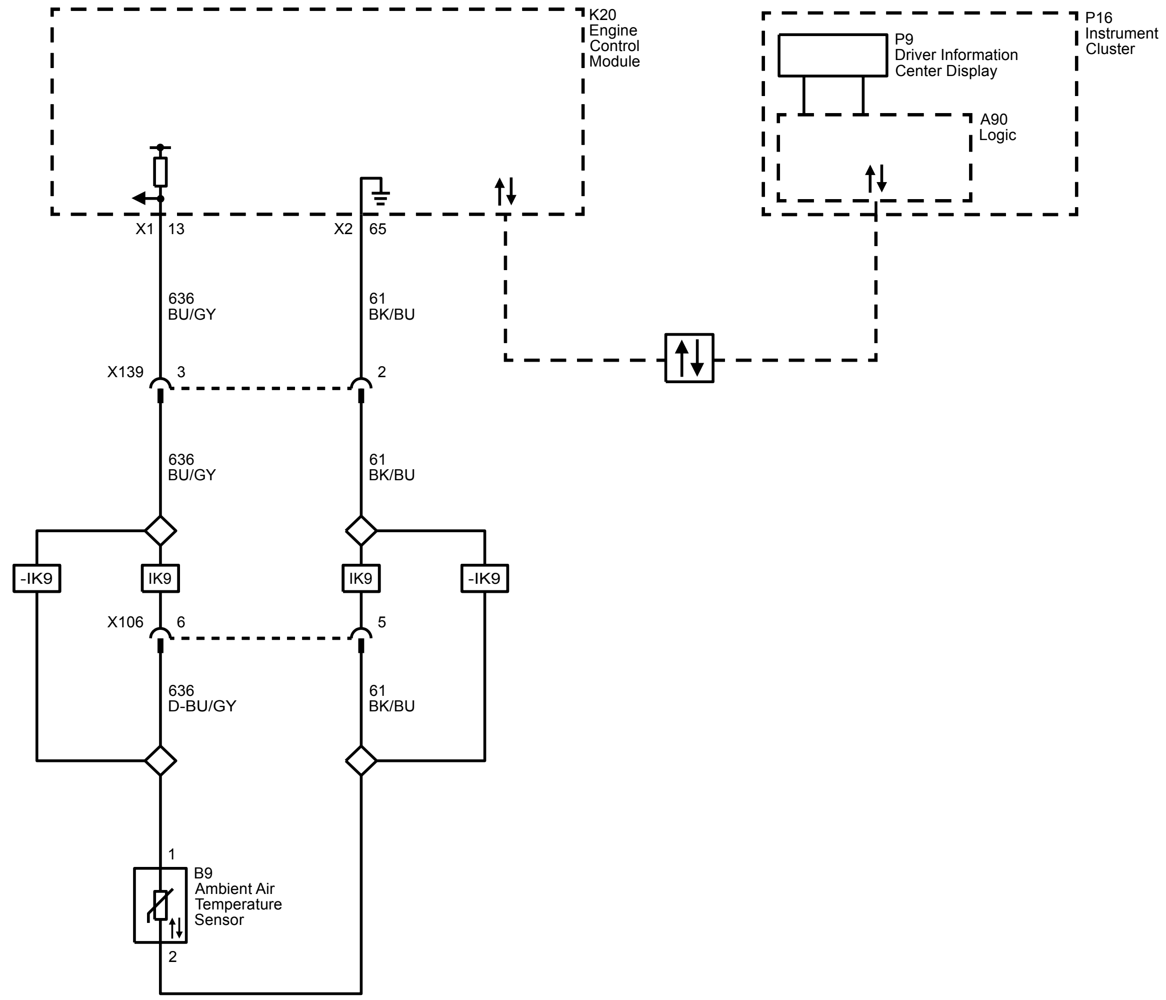
Instrument Cluster Schematics

Power, Ground and Serial Data


B+
X51L
Fuse Block -
Instrument
Panel Left
KR73
Ignition
Main
Relay
F39DL
10A
F25DL
10A
X2
35
28
2840
RD/GY
J220
2840
RD/GY
1639
VT/BK
Data
Communication
Schematics
UV6
3894
GN/BK
5060
GN
3999
WH/VT
3894
GN/BK
3998
GY/VT
3997
WH/GN
3998
GY/VT
3997
WH/GN
7
8
21
3
5
20
17
18
2
1
P16
Instrument
Cluster
A90
Logic
B+
IGN
19
1851
BK/WH
G218

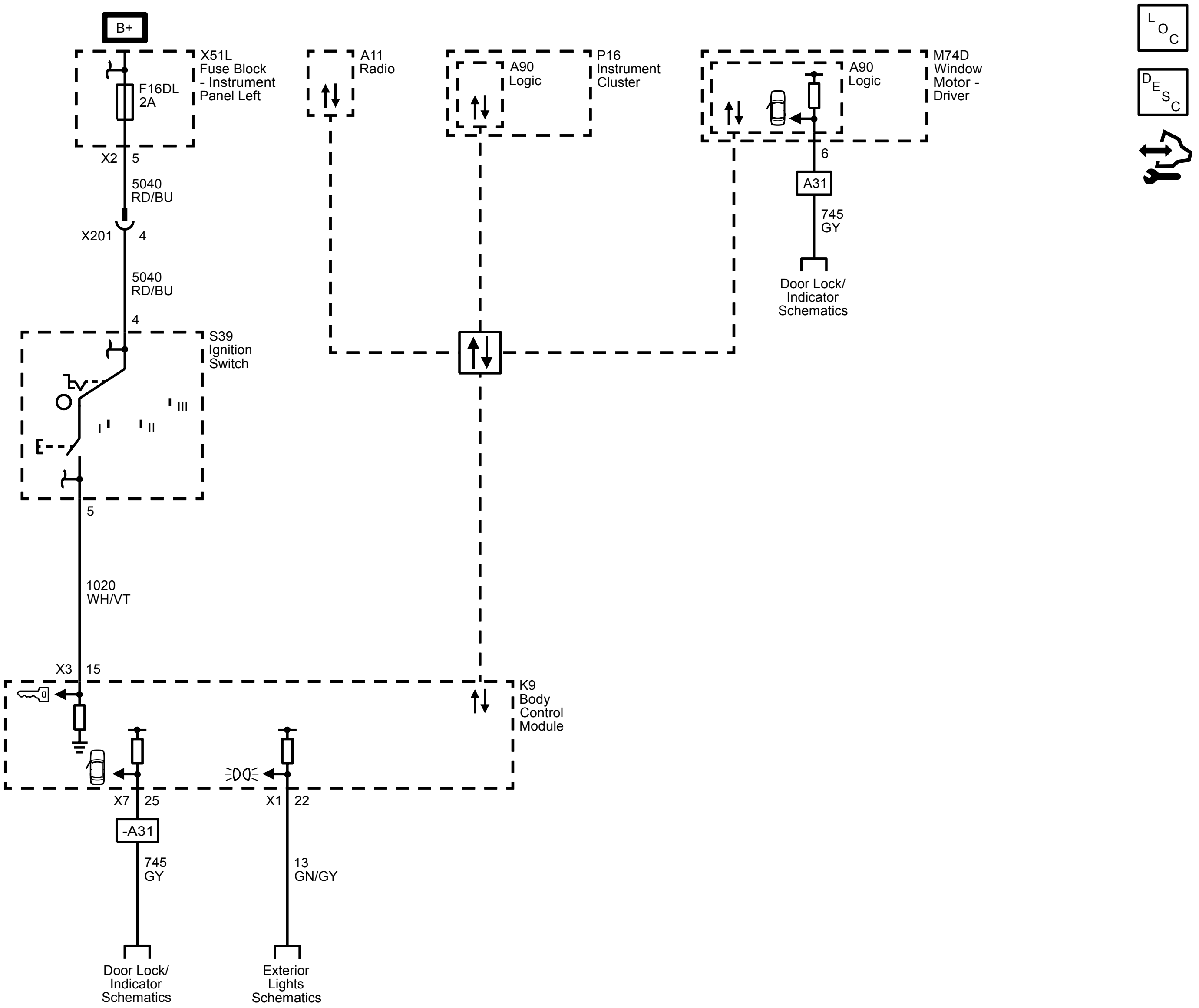

P16
Instrument
Cluster
Km/h
MPH
RPM
A90
Logic
A7
Fuel Pump
and Level
Sensor
Assembly
D
B46
Fuel
Level
Sensor
40 Ω
250 Ω
C
6281
BK/GN
1589
BU/VT
X350
3
4
6281
BK/GN
1589
BU/VT
J375
6281
BK/GN
6281
BK/GN
2
B150
Fuel
Tank
Pressure
Sensor
P
U
1
3
Engine
Controls
Schematics
2
B37B
Engine
Oil
Pressure
Sensor
P
U
1
3
890
BU/WH
2709
YE/RD
X125
15
16
12
11
331
YE/BN
2705
WH/RD
2755
BK/VT
410
BU
890
BU/WH
2709
YE/RD
6281
BK/GN
1589
BU/VT
X3
1
2
17
X3
8
X1
9
10
26
25
5V
5V
K20
Engine
Control
Module


L O C
D E S C
P16 Instrument Cluster
A90 Logic
P9 Driver Information Center Display
2
A90 Logic
P
ABS
16
24
12
30
10
UKD
419 BN/WH
185 VT
3885 GY/YE
3535 WH/GN
68 D-BU/YE
Engine Controls Schematics
Wiper/Washer Schematics
Object Detection Schematics
Engine Heating/ Cooling Schematics
K20 Engine Control Module
K9 Body Control Module


K20
Engine
Control
Module
P16
Instrument
Cluster
P9
Driver Information
Center Display
A90
Logic
X1
13
X2
65
636
BU/GY
61
BK/BU
X139
3
2
636
BU/GY
61
BK/BU
-IK9
IK9
IK9
-IK9
X106
6
5
636
D-BU/GY
61
BK/BU
1
B9
Ambient Air
Temperature
Sensor
2

Audible Warnings Schematics

Audible Warnings


B+
X51L
Fuse Block
- Instrument
Panel Left
F16DL
2A
X2 5
5040
RD/BU
X201 4
5040
RD/BU
4
S39
Ignition
Switch
I
II
III
5
1020
WH/VT
A11
Radio
A90
Logic
P16
Instrument
Cluster
A90
Logic
M74D
Window
Motor -
Driver
6
A31
745
GY
Door Lock/
Indicator
Schematics
X3 15
K9
Body
Control
Module
X7 25
-A31
745
GY
Door Lock/
Indicator
Schematics
X1 22
13
GN/GY
Exterior
Lights
Schematics
LOC
DESC

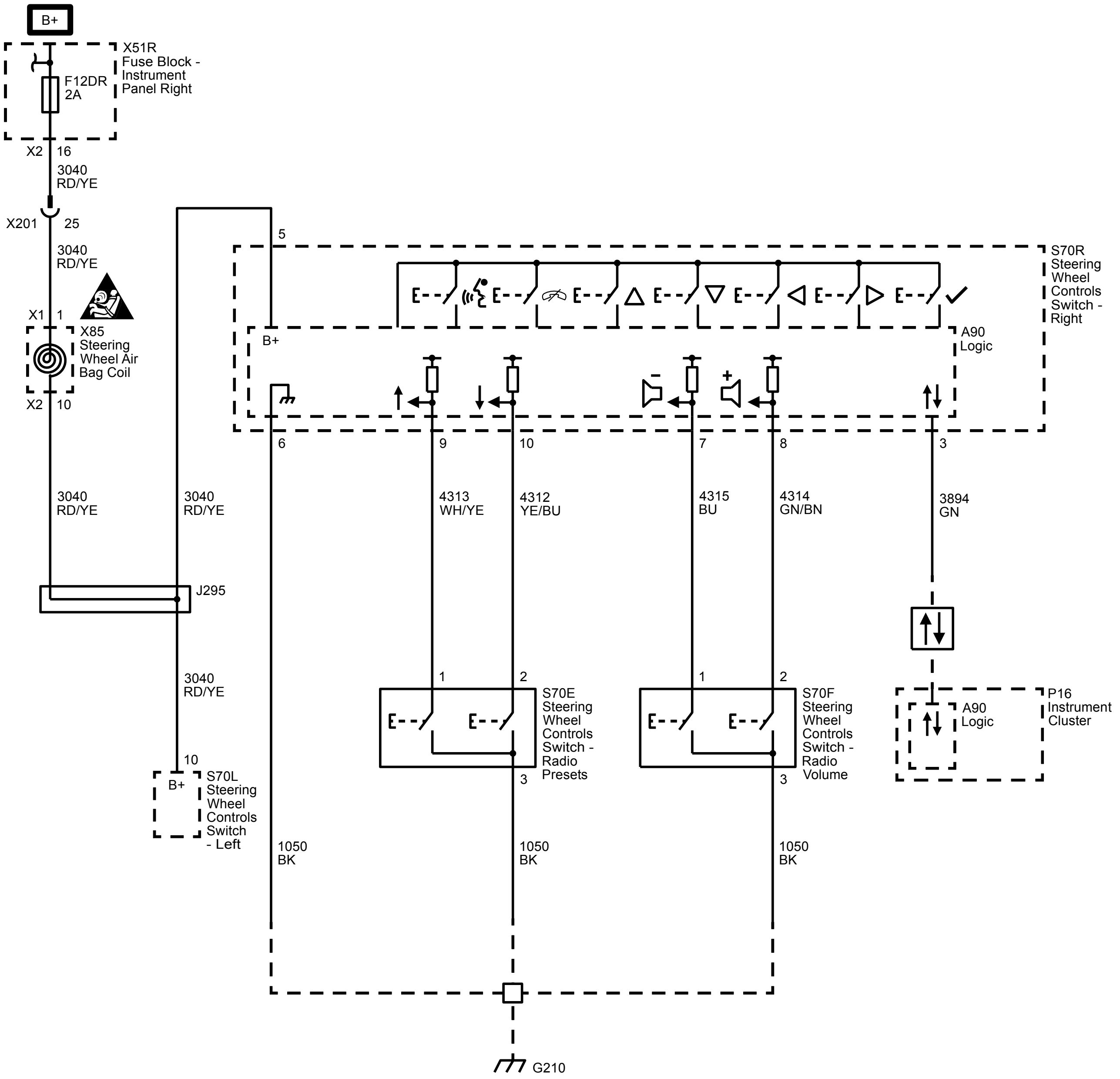
Secondary and Configurable Customer Controls

Schematic and Routing Diagrams

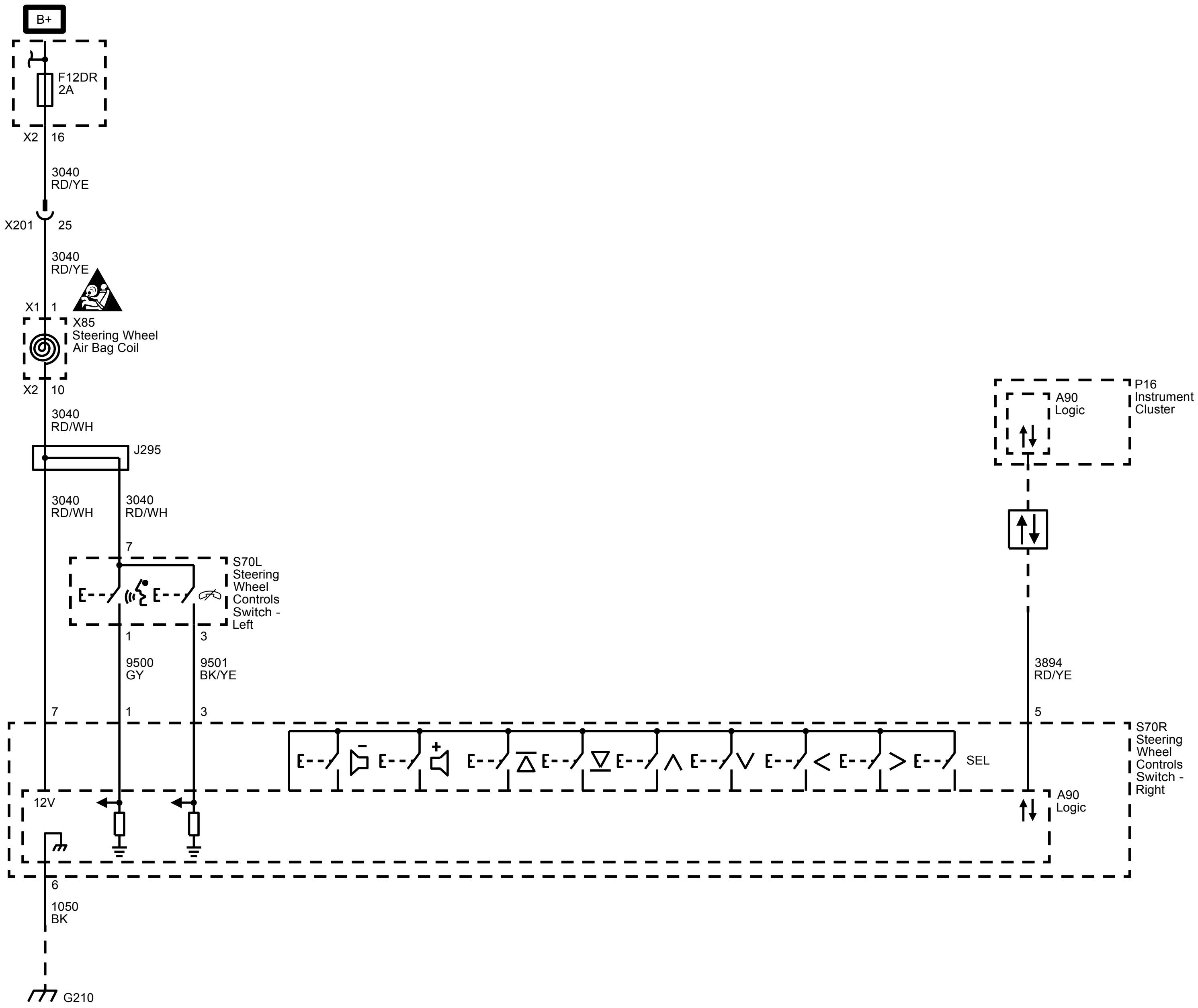
Steering Wheel Secondary/Configurable Control Schematics

Steering Wheel Radio Controls (X88 or Z88 with UK3)

LOC
DESC


B+
X51R
Fuse Block - Instrument Panel Right
F12DR
2A
X2
16
3040
RD/YE
X201
25
3040
RD/YE
X1
1
X85
Steering Wheel Air Bag Coil
X2
10
3040
RD/YE
3040
RD/YE
J295
3040
RD/YE
10
B+
S70L
Steering Wheel Controls Switch - Left
5
S70R
Steering Wheel Controls Switch - Right
B+
A90
Logic
6
9
10
7
8
3
4313
WH/YE
4312
YE/BU
4315
BU
4314
GN/BN
3894
GN
1
2
S70E
Steering Wheel Controls Switch - Radio Presets
3
1
2
S70F
Steering Wheel Controls Switch - Radio Volume
3
A90
Logic
P16
Instrument Cluster
1050
BK
1050
BK
1050
BK
G210

Steering Wheel Radio Controls (Z75)

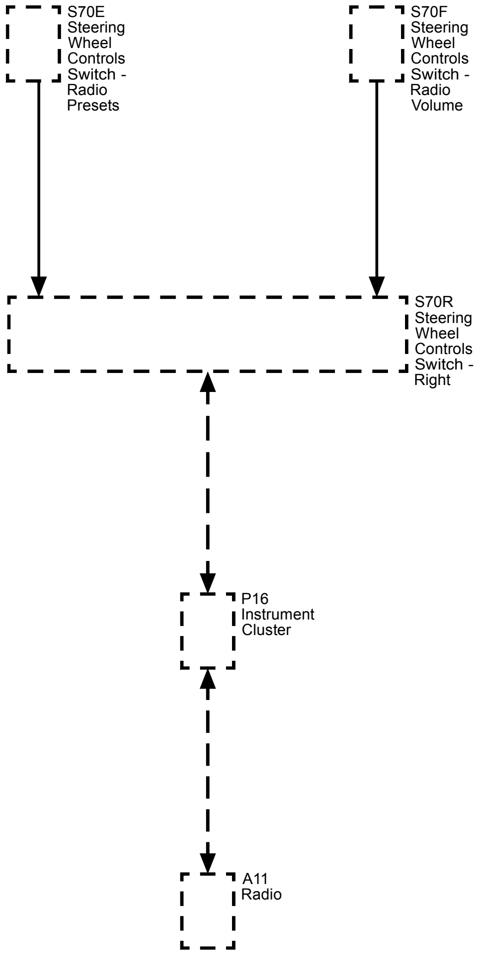


B+
F12DR
2A
X2
16
3040
RD/YE
X201
25
3040
RD/YE
X1
1
X85
Steering Wheel
Air Bag Coil
X2
10
3040
RD/WH
J295
3040
RD/WH
3040
RD/WH
7
S70L
Steering
Wheel
Controls
Switch -
Left
1
3
9500
GY
9501
BK/YE
P16
Instrument
Cluster
A90
Logic
3894
RD/YE
7
1
3
5
S70R
Steering
Wheel
Controls
Switch -
Right
−
+
SEL
A90
Logic
12V
6
1050
BK
G210

Description and Operation

Steering Wheel Controls Description and Operation

Secondary Controls Block Diagram


S70E Steering Wheel Controls Switch - Radio Presets
S70F Steering Wheel Controls Switch - Radio Volume
S70R Steering Wheel Controls Switch - Right
P16 Instrument Cluster
A11 Radio

The steering wheel control switches duplicate the function of the primary controls of the associated component, through a network of momentary contact switches.

The Steering Wheel Controls are divided into a right-hand set and left-hand set. The right-hand switch is connected to the IPC LIN serial data and provides input from the left-hand, left-hand rear, and right-hand rear switches

The right-hand switch controller consists of UP/DOWN/LEFT/RIGHT directional, center “select” , Push-to-Talk, and Mute buttons. The LEFT/RIGHT buttons navigate the display regions of the cluster. The UP/DOWN buttons navigate the menus. The right-hand rear switch consists of volume up and volume down buttons. The left-hand rear switch consists of favorite up and favorite down buttons.

Engine/Propulsion

Cruise Control

Diagnostic Information and Procedures

DTC B3623

Diagnostic Instructions

- Perform the CELL Link Error - Link target cell (cell ID 72794) is invalid for this publication. prior to using this diagnostic procedure.
- Review CELL Link Error - Link target cell (cell ID 161235) is invalid for this publication. for an overview of the diagnostic approach.
- CELL Link Error - Link target cell (cell ID 161236) is invalid for this publication. provides an overview of each diagnostic category.

DTC Descriptors

DTC B3623 08: Steering Wheel Controls Distance Sensing Cruise Control Gap Up/Down Signal Circuit-Signal Invalid

DTC B3623 61: Steering Wheel Controls Distance Sensing Cruise Control Gap Up/Down Signal Circuit-Stuck

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Ignition	1	B3623 08, B3623 61	—	—
Signal	B3623 08, B3623 61	B3623 08, B3623 61	1	B3623 08, B3623 61
1. Cruise Control Malfunction				

Circuit/System Description

The adaptive cruise control gap switch is used to select a following gap time (or distance) setting for the adaptive cruise control of far, medium, or near

Conditions for Running the DTC

- The cruise switch is ON.
- The ignition is ON.

Conditions for Setting the DTC

B3623 08

The BCM detects an invalid voltage signal on the adaptive cruise control gap switch signal circuit for 1 s.

B3623 61

The adaptive cruise control gap switch is stuck in one position for 60 s.

Actions Taken When the DTC Sets

B3623

- The malfunction indicator lamp (MIL) will not illuminate.
- The cruise control system is disabled.

B3623

DTC B3623 is a type C DTC.

Conditions for Clearing the DTC

B3623

- The condition responsible for setting the DTC no longer exists.
- A history DTC will clear after 40 malfunction-free ignition cycles have occurred.

B3623

DTC B3623 is a type C DTC.

Reference Information

Schematic Reference

CELL Link Error - Link target cell (cell ID 10758) is invalid for this publication.

Connector End View Reference

Component Connector End Views

Description and Operation

Cruise Control Description and OperationCruise Control Description and Operation (Distance Sensing Cruise Control)

Electrical Information Reference

- CELL Link Error - Link target cell (cell ID 62194) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61973) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 62112) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61965) is invalid for this publication.

Scan Tool Reference

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for scan tool information

Circuit/System Verification

1. Ignition ON.
2. Verify the scan tool Distance Sensing Cruise Control Module Following Distance Setting Parameter changes between Far, Medium or Near when pressing the adaptive cruise control gap switch.
   ⇒ **If the parameter does not change**

   Refer to Circuit/System Testing.

   ⇓ **If the parameter changes**
3. All OK.

Circuit/System Testing

Note:

- An open ignition circuit or fuse before the control module will cause communication DTCs or power mode mismatch DTCs to set against or in the control module. This failure mode will be diagnosed in the no communications diagnostic procedure or power mode mismatch.
- This test assumes the ignition circuit has a driver that will open under a high current condition before the fuse opens.
- The module driver can open under normal conditions such as battery run down protection or a retained accessory power mode.

1. Ignition OFF, disconnect the harness connector at the S70L Steering Wheel Controls Switch-Left, ignition ON.
2. Verify a test lamp illuminates between the ignition circuit terminal 10 and ground.
   ⇒ **If the test lamp does not illuminate**

   2.1. Ignition OFF, disconnect the harness connector at the K9 Body Control Module.

   2.2. Test for greater than 100 Ω between the ignition circuit and ground.

   ⇒ If 100 Ω or less, repair the short to ground on the circuit.

   ⇓ If greater than 100 Ω

   2.3. Test for less than 2 Ω in the ignition circuit end to end.

   ⇒ If 2 Ω or greater, repair the open/high resistance in the circuit.

   ⇒ If less than 2 Ω, test or replace the K9 Body Control Module.

   ⇓ **If the test lamp illuminates**
3. Verify the scan tool BCM Cruise Control Switch 2 parameter is Open/High Resistance.
   ⇒ **If not Open/High Resistance**

   3.1. Ignition OFF, disconnect the harness connector at the K9 Body Control Module, ignition ON.

   3.2. Test for less than 1 V between the signal circuit terminal 5 and ground.

   ⇒ If 1 V or greater, repair the short to voltage on the circuit.

   ⇒ If less than 1 V, replace the K9 Body Control Module.

   ⇓ **If Open/High Resistance**
4. Install a 3 A fused jumper wire between the signal circuit terminal 5 and the ignition circuit terminal 10.
5. Verify the scan tool BCM Cruise Control Switch 2 parameter displays Short to Battery.
   ⇒ **If not Short to Battery**

5.1. Ignition OFF, disconnect the harness connector at the K9 Body Control Module.

5.2. Test for infinite resistance between the signal circuit terminal 5 and ground.

⇒ If less than infinite resistance, repair the short to ground on the circuit.

⇓ If infinite resistance

5.3. Test for less than 2 Ω in the signal circuit end to end.

⇒ If 2 Ω or greater, repair the open/high resistance in the circuit.

⇒ If less than 2 Ω, replace the K9 Body Control Module.

⇓ **If Short to Battery**

6. Test or replace the S70L Steering Wheel Controls Switch-Left.

Repair Instructions

Perform the CELL Link Error - Link target cell (cell ID 143214) is invalid for this publication. after completing the repair.

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for BCM replacement, programming and setup.

DTC C0460 (Distance Sensing Cruise Control)

Diagnostic Instructions

- Perform the CELL Link Error - Link target cell (cell ID 72794) is invalid for this publication. prior to using this diagnostic procedure.
- Review CELL Link Error - Link target cell (cell ID 161235) is invalid for this publication. for an overview of the diagnostic approach.
- CELL Link Error - Link target cell (cell ID 161236) is invalid for this publication. provides an overview of each diagnostic category.

DTC Descriptor

DTC C0460 3A: Steering Wheel Angle Sensor Module — Incorrect Component Installed

For symptom byte information, refer to CELL Link Error - Link target cell (cell ID 218664) is invalid for this publication.

Circuit/System Description

The distance sensing cruise control system has detected a problem with the steering wheel angle sensor signal.

Conditions for Running the DTC

Ignition voltage is between 9–16 V.

Conditions for Setting the DTC

The steering wheel angle sensor signal is invalid.

Action Taken When the DTC Sets

DTC C0460 is stored in memory.

Conditions for Clearing the DTC

A current DTC will clear on the next malfunction-free ignition cycle.

Reference Information

Schematic Reference

CELL Link Error - Link target cell (cell ID 10758) is invalid for this publication.

Connector End View Reference

Component Connector End Views

Description and Operation

Cruise Control Description and OperationCruise Control Description and Operation (Distance Sensing Cruise Control)

Electrical Information Reference

- CELL Link Error - Link target cell (cell ID 62194) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61973) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 62112) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61965) is invalid for this publication.

Scan Tool Reference

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for scan tool information.

Circuit/System Verification

1. Ignition ON.
2. Verify that DTC C0460 3A is not set.

   ⇒ **If the DTC is set**

   2.1. Install the correct part number B99 Steering Wheel Angle Sensor. Clear DTCs and retest.

   2.2. Verify the DTC does not set while operating the vehicle within the Conditions for Running the DTC.

      ⇒ If the DTC sets, replace the K14 Distance Sensing Cruise Control Module.

      ⇓ If the DTC is not set.

   2.3. All OK.

   ⇓ **If the DTC is not set**
3. All OK.

Repair Instructions

Perform the CELL Link Error - Link target cell (cell ID 143214) is invalid for this publication. after completing the repair.

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for distance sensing cruise control module replacement, programming and setup.

DTC C0561

Diagnostic Instructions

- Perform the CELL Link Error - Link target cell (cell ID 72794) is invalid for this publication. prior to using this diagnostic procedure.
- Review CELL Link Error - Link target cell (cell ID 161235) is invalid for this publication. for an overview of the diagnostic approach.
- CELL Link Error - Link target cell (cell ID 161236) is invalid for this publication. provides an overview of each diagnostic category.

DTC Descriptor

DTC C0561 00: System Disabled Information Stored Malfunction

Circuit/System Description

The distance sensing cruise control module has the exclusive function of detecting, tracking and classifying targets within its specified field of view. The distance sensing cruise control module has the ability to detect and react to objects of interest in its detection zone and is critical to the proper operation of the adaptive cruise control system.

Conditions for Running the DTC

Engine is running.

Conditions for Setting the DTC

The mismatch between the vehicle speed information of the front and rear wheels is greater than 15 km/h (9 MPH).

Action Taken When the DTC Sets

- Loss of adaptive cruise control function.
- Service Adaptive Cruise Control message is displayed in the driver information center.

Conditions for Clearing the DTC

The condition responsible for setting the DTC no longer exists.

Diagnostic Aids

When the Service Adaptive Cruise Control message is displayed in the driver information center the disable reason is stored in the scan tool Cruise Control Disengage History parameters.

The scan tool Cruise Control Disengage History parameters are a list of the previous reasons the adaptive cruise control system was disabled. These parameters may help in the diagnosis of an intermittent concern or a customer concern which is the result of normal system operation.

Reference Information

Schematic Reference

CELL Link Error - Link target cell (cell ID 10758) is invalid for this publication.

Connector End View Reference

Component Connector End Views

Description and Operation

Cruise Control Description and OperationCruise Control Description and Operation (Distance Sensing Cruise Control)

Electrical Information Reference

- CELL Link Error - Link target cell (cell ID 62194) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61973) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 62112) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61965) is invalid for this publication.

Scan Tool Reference

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for scan tool information

Circuit/System Testing

1. Program the K14 Distance Sensing Cruise Control Module.
2. Road test the vehicle and verify the adaptive cruise control system functions normally and DTC C0561 does not set. Refer to Cruise Control Description and OperationCruise Control Description and Operation (Distance Sensing Cruise Control).

   ⇒ **If DTC C0561 sets**

   Refer to Diagnostic Aids and the scan tool Cruise Control Disengage History parameters to determine the cause of the inhibit.

   ⇓ **If DTC C0561 does not set**
3. All OK.

Repair Instructions

Perform the CELL Link Error - Link target cell (cell ID 143214) is invalid for this publication. after completing the repair.

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for distance sensing cruise control module replacement, programming and setup.

DTC C0565

Diagnostic Instructions

- Perform the CELL Link Error - Link target cell (cell ID 72794) is invalid for this publication. prior to using this diagnostic procedure.
- Review CELL Link Error - Link target cell (cell ID 161235) is invalid for this publication. for an overview of the diagnostic approach.
- CELL Link Error - Link target cell (cell ID 161236) is invalid for this publication. provides an overview of each diagnostic category.

DTC Descriptor

DTC C0565 00: Vehicle Identification Number Malfunction

Circuit/System Description

The vehicle identification number (VIN) is programmed into the distance sensing cruise control module during initial programming of the module.

Conditions for Running the DTC

Ignition ON

Conditions for Setting the DTC

The distance sensing cruise control module is not properly programmed.

Action Taken When the DTC Sets

- Loss of adaptive cruise control function.
- Service Adaptive Cruise Control message is displayed in the driver information center.

Conditions for Clearing the DTC

The condition responsible for setting the DTC no longer exists.

Reference Information

Schematic Reference

CELL Link Error - Link target cell (cell ID 10758) is invalid for this publication.

Connector End View Reference

Component Connector End Views

Description and Operation

Cruise Control Description and OperationCruise Control Description and Operation (Distance Sensing Cruise Control)

Electrical Information Reference

- CELL Link Error - Link target cell (cell ID 62194) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61973) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 62112) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61965) is invalid for this publication.

Scan Tool Reference

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for scan tool information

Circuit/System Verification

1. Verify that DTC C0565 is not set.

   ⇒ **If DTC C0565 is set**

   1.1. Program the K14 Distance Sensing Cruise Control Module.

   1.2. Verify the DTC does not set

   ⇒ If the DTC sets, replace the K14 Distance Sensing Cruise Control Module.

   ⇓ If the DTC does not set

   1.3. All OK.

   ⇓ **If DTC C0565 is not set**

2. All OK.

Repair Instructions

Perform the CELL Link Error - Link target cell (cell ID 143214) is invalid for this publication. after completing the repair.

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for distance sensing cruise control module replacement, programming and setup

DTC C056E (Distance Sensing Cruise Control)

Diagnostic Instructions

- Perform the CELL Link Error - Link target cell (cell ID 72794) is invalid for this publication. prior to using this diagnostic procedure.
- Review CELL Link Error - Link target cell (cell ID 161235) is invalid for this publication. for an overview of the diagnostic approach.
- CELL Link Error - Link target cell (cell ID 161236) is invalid for this publication. provides an overview of each diagnostic category.

DTC Descriptor

DTC C056E 4B: Electronic Control Unit Software — Calibration Not Learned

For symptom byte information, refer to CELL Link Error - Link target cell (cell ID 218664) is invalid for this publication..

Circuit/System Description

The distance sensing cruise control module has detected that the learn procedure has not been performed or completed.

Conditions for Running the DTC

Battery voltage is between 9–16 V and data link communications operate normally.

Conditions for Setting the DTC

The device is not configured properly.

Conditions for Clearing the DTC

- A current DTC clears when the malfunction is no longer present.
- A history DTC clears when the device ignition cycle counter reaches the reset threshold, without a repeat of the malfunction.

Reference Information

Schematic Reference

Data Communication Schematics

Connector End View Reference

Component Connector End Views

Description and Operation

Data Link Communications Description and Operation

Electrical Information Reference

- CELL Link Error - Link target cell (cell ID 62194) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61973) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 62112) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61965) is invalid for this publication.

Scan Tool References

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for scan tool information

Circuit/System Verification

Note: If DTC C056 with failure type byte 4B is the only DTC set, all that should be needed is to perform the distance sensing cruise control module learn procedure.

1. Verify DTC C056E 4B is not set.

   ⇒ **If DTC C056E 4B is set**

   1.1. Perform the distance sensing cruise control module learn procedure. Refer to Distance Sensing Cruise Control Module Learn Procedure.

   1.2. Verify the DTC C056E 4B does not set.

   ⇒ If the DTC C056E 4B sets, replace the K14 Distance Sensing Cruise Control Module.

   ⇓ If the DTC C056E 4B does not set

   1.3. All OK.

   ⇓ **If DTC C056E 4B is not set**

2. All OK

Repair Instructions

Perform the CELL Link Error - Link target cell (cell ID 143214) is invalid for this publication. after completing the repair.

- Distance Sensing Cruise Control Module Learn Procedure for distance sensing cruise control module learn procedure.
- CELL Link Error - Link target cell (cell ID 224682) is invalid for this publication. for K14 Distance Sensing Cruise Control Module replacement.

- CELL Link Error - Link target cell (cell ID 226428) is invalid for this publication. for K14 Distance Sensing Cruise Control Module alignment.
- CELL Link Error - Link target cell (cell ID 226429) is invalid for this publication. for K14 Distance Sensing Cruise Control Module inspection.
- CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for device replacement, programming and setup.

DTC C1002

Diagnostic Instructions

- Perform the CELL Link Error - Link target cell (cell ID 72794) is invalid for this publication. prior to using this diagnostic procedure.
- Review CELL Link Error - Link target cell (cell ID 161235) is invalid for this publication. for an overview of the diagnostic approach.
- CELL Link Error - Link target cell (cell ID 161236) is invalid for this publication. provides an overview of each diagnostic category.

DTC Descriptor

DTC C1002 00: Distance Sensing Cruise Control Module Performance Malfunction

DTC C1002 66: Distance Sensing Cruise Control Module Performance Incorrect Mounting

Circuit/System Description

The distance sensing cruise control module has the exclusive function of detecting, tracking and classifying targets within its specified field of view. The distance sensing cruise control module has the ability to detect and react to objects of interest in its detection zone and is critical to the proper operation of the adaptive cruise control system. When the distance sensing cruise control module detects that it is out of alignment, DTC C1002 sets.

Conditions for Running the DTC

The ignition is ON.

Conditions for Setting the DTC

The alignment angle is outside allowed range.

Action Taken When the DTC Sets

C1002 00

- Loss of adaptive cruise control function.
- Cruise Not Ready message is displayed in the driver information center.

C1002 66

- Loss of adaptive cruise control function.
- Service Adaptive Cruise Control message is displayed in the driver information center.

Conditions for Clearing the DTC

The condition responsible for setting the DTC no longer exists.

Diagnostic Aids

An out of alignment condition may be a result of tampering with the structures/brackets or the adjuster settings of the distance sensing cruise control module. Also, damage to the front section of the vehicle or to the distance sensing cruise control module may cause an out of alignment condition.

Reference Information

Schematic Reference

CELL Link Error - Link target cell (cell ID 10758) is invalid for this publication.

Connector End View Reference

Component Connector End Views

Description and Operation

Cruise Control Description and OperationCruise Control Description and Operation (Distance Sensing Cruise Control)

Electrical Information Reference

- CELL Link Error - Link target cell (cell ID 62194) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61973) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 62112) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61965) is invalid for this publication.

Scan Tool Reference

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for scan tool information

Circuit/System Testing

1. Perform the Distance Sensing Cruise Control Service Alignment learn procedure with scan tool.
2. Road test the vehicle and verify the adaptive cruise control system functions normally and DTC C1002 does not set. Refer to Cruise Control Description and OperationCruise Control Description and Operation (Distance Sensing Cruise Control).
   - ⇒ **If DTC C1002 sets**

2.1. Align the K14 Distance Sensing Cruise Control Module. Refer to CELL Link Error - Link target cell (cell ID 226428) is invalid for this publication..

⇒ If alignment cannot be achieved within the limits of the available adjustment, inspect the mounting structures and brackets for damage or tampering and repair as necessary to achieve proper alignment.

⇓ If alignment is OK

2.2. Road test the vehicle and verify the adaptive cruise control system functions normally and DTC C1002 does not set.

⇒ If DTC C1002 sets, replace the K14 Distance Sensing Cruise Control Module.

⇓ If DTC C1002 does not set.

2.3. All OK.

⇓ **If DTC C1002 does not set**

3. All OK.

Repair Instructions

Perform the CELL Link Error - Link target cell (cell ID 143214) is invalid for this publication. after completing the repair.

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for distance sensing cruise control module replacement, programming and setup.

DTC P0571

Diagnostic Instructions

- Perform the CELL Link Error - Link target cell (cell ID 72794) is invalid for this publication. prior to using this diagnostic procedure.
- Review CELL Link Error - Link target cell (cell ID 161235) is invalid for this publication. for an overview of the diagnostic approach.
- CELL Link Error - Link target cell (cell ID 161236) is invalid for this publication. provides an overview of each diagnostic category.

DTC Descriptor

DTC P0571: Cruise Control Brake Switch Circuit

Circuit/System Description

The engine control module (ECM) monitors the brake pedal position sensor. When the brake pedal is applied, the ECM detects a predetermined voltage signal. The ECM sends a serial data message to the body control module (BCM) indicating the status of the stop lamps.

This diagnostic test functions on the assumption that a sudden decrease in vehicle speed is caused by a brake pedal application. When the ECM detects that there is a 4.2 km/h (2.6 mph) or greater decrease in vehicle speed within 0.25 s without a transition of the stop lamp switch, the ECM sets DTC P0571.

Conditions for Running the DTC

- The engine speed is greater than 700 RPM.
- The traction control system or the antilock brake system are not active and have not malfunctioned.
- The vehicle speed is greater than 48 km/h (30 mph).
- The diagnostic will disable when the wheel speed is less than 16 km/h (10 mph).

Conditions for Setting the DTC

The BCM detects either a low voltage signal on the stop lamp switch signal circuit when the serial data message from the ECM indicates the brakes are applied, or a high voltage signal on the stop lamp switch signal circuit when the serial data message from the ECM indicates the brakes are not applied.

Actions Taken When the DTC Sets

- The cruise control system is disabled.
- The malfunction indicator lamp (MIL) will not illuminate.

Conditions for Clearing the DTC

- The condition responsible for setting the DTC no longer exists.
- A history DTC will clear after 40 malfunction-free ignition cycles have occurred.

Reference Information

Schematic Reference

- CELL Link Error - Link target cell (cell ID 10758) is invalid for this publication.
- Exterior Lights Schematics

Connector End View Reference

Component Connector End Views

Description and Operation

Cruise Control Description and OperationCruise Control Description and Operation (Distance Sensing Cruise Control)

Electrical Information Reference

- CELL Link Error - Link target cell (cell ID 62194) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61973) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 62112) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61965) is invalid for this publication.

Scan Tool Reference

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for scan tool information

Circuit/System Verification

1. Verify that the stop lamps operate properly and that no B22 Brake Pedal Position Sensor related DTCs are set.

   ⇒ **If brake pedal position sensor related DTCs are set**

   Refer to CELL Link Error - Link target cell (cell ID 72795) is invalid for this publication.

⇓ **If no brake pedal position sensor related DTCs are set**

2. Verify that no DTCs are set, except DTC P0571.

   ⇒ **If any other DTC is set, except DTC P0571**

   Refer to CELL Link Error - Link target cell (cell ID 72795) is invalid for this publication..

   ⇓ **If only DTC P0571 is set**

3. Replace the K20 Engine Control Module.
4. Verify DTC P0571 does not set when operating the vehicle within the conditions for running the DTC.

   ⇒ **If the DTC sets**

   Replace the K9 Body Control Module.

   ⇓ **If the DTC does not set**

5. All OK.

Repair Instructions

Perform the CELL Link Error - Link target cell (cell ID 143214) is invalid for this publication. after completing the repair.

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for BCM or ECM replacement, programming and setup.

DTC P0572 or P0573

Diagnostic Instructions

- Perform the CELL Link Error - Link target cell (cell ID 72794) is invalid for this publication. prior to using this diagnostic procedure.
- Review CELL Link Error - Link target cell (cell ID 161235) is invalid for this publication. for an overview of the diagnostic approach.
- CELL Link Error - Link target cell (cell ID 161236) is invalid for this publication. provides an overview of each diagnostic category.

DTC Descriptors

DTC P0572: Brake Switch Circuit 1 Low Voltage

DTC P0573: Brake Switch Circuit 1 High Voltage

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Stop Lamp Switch Signal	C0297 02, P0572	P0572	P0573	P0572, P0573

Circuit/System Description

The stop lamp switch signal circuit is a B+ input from the body control module (BCM) to the engine control module (ECM). The ECM monitors the stop lamp switch circuit to detect when the brake pedal has been applied. The BCM monitors the brake pedal position sensor to determine when the brake pedal is applied. When the brake pedal is applied, the BCM supplies B+ on the stop lamp switch signal circuit and also sends a serial data message to the ECM indicating that the brake pedal has been applied.

Conditions for Running the DTC

- The engine is running.
- Battery voltage is greater than 11.5 V.
- Brakes applied.

Conditions for Setting the DTC

P0572

This DTC will set when the ECM detects a short to ground or an open on the discrete brake signal circuit when the serial data message from the BCM indicates the brakes are applied. This diagnostic will run when the serial data message and the voltage signal on the brake switch signal circuit do not match for 8 out 10 times, and the condition is present for greater than 2 s.

P0573

This DTC will set when the ECM detects a short to voltage on the discrete brake signal circuit when the serial data message from the BCM indicates the brakes are not applied. This diagnostic will run when the serial data message and the voltage signal on the brake switch signal circuit do not match for 8 out 10 times, and the condition is present for greater than 2 s.

Actions Taken When the DTC Sets

- The malfunction indicator lamp (MIL) will not illuminate.
- The cruise control system is disabled.

Conditions for Clearing the DTC

- The condition responsible for setting the DTC no longer exists.
- A history DTC will clear after 40 malfunction-free ignition cycles have occurred.

Reference Information

Schematic Reference

CELL Link Error - Link target cell (cell ID 10758) is invalid for this publication.

Connector End View Reference

Component Connector End Views

Description and Operation

Cruise Control Description and OperationCruise Control Description and Operation (Distance Sensing Cruise Control)

Electrical Information Reference

- CELL Link Error - Link target cell (cell ID 62194) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61973) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 62112) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61965) is invalid for this publication.

Scan Tool Reference

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for scan tool information

Circuit/System Verification

1. Ignition ON.
2. Verify that the stop lamps operate properly and that no B22 Brake Pedal Position Sensor related DTCs are set.
   - ⇒ **If brake pedal position sensor related DTCs are set**

     Refer to CELL Link Error - Link target cell (cell ID 72795) is invalid for this publication.
   - ⇓ **If no brake pedal position sensor related DTCs are set**
3. Refer to Circuit/System Testing.

Circuit/System Testing

1. Ignition OFF, disconnect the X1 harness connector at the K20 Engine Control Module, ignition ON.
2. Connect a test lamp between the signal circuit terminal 57 and ground.
3. Verify the test lamp turns ON and OFF when pressing and releasing the brake pedal.
   - ⇒ **If the test lamp is always OFF**
     - 3.1. Ignition OFF, disconnect the harness connector at the K9 Body Control Module.
     - 3.2. Test for infinite resistance between the signal circuit and ground.
       - ⇒ If not infinite resistance, repair the short to ground on the circuit.
       - ⇓ If infinite resistance.
     - 3.3. Test for less than 2 Ω in the signal circuit end to end.
       - ⇒ If 2 Ω or greater, repair the open/high resistance in the circuit.
       - ⇒ If less than 2 Ω, replace the K9 Body Control Module.
   - ⇒ **If the test lamp is always ON**
     - 3.1. Ignition OFF, disconnect the harness connector at the K9 Body Control Module, ignition ON.
     - 3.2. Test for less than 1 V between the signal circuit and ground.
       - ⇒ If 1 V or greater, repair the short to voltage on the circuit.
       - ⇒ If less than 1 V replace the K9 Body Control Module.
   - ⇓ **If the test lamp turns ON and OFF**
4. Replace the K20 Engine Control Module.

Repair Instructions

Perform the CELL Link Error - Link target cell (cell ID 143214) is invalid for this publication. after completing the repair.

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for BCM or ECM replacement, programming, and setup.

DTC P0575

Diagnostic Instructions

- Perform the CELL Link Error - Link target cell (cell ID 72794) is invalid for this publication. prior to using this diagnostic procedure.
- Review CELL Link Error - Link target cell (cell ID 161235) is invalid for this publication. for an overview of the diagnostic approach.
- CELL Link Error - Link target cell (cell ID 161236) is invalid for this publication. provides an overview of each diagnostic category.

DTC Descriptor

DTC P0575: Cruise Control Switch Signal Message Counter Incorrect

Circuit/System Description

When a cruise control function switch is activated, the body control module (BCM) detects a predetermined voltage. The BCM sends a serial data message to the engine control module (ECM) indicating the function that has been requested.

Conditions for Running the DTC

- The ignition is ON.
- The vehicle speed is greater than 40 km/h (25 MPH) and the cruise control is engaged.

Conditions for Setting the DTC

- The ECM receives an invalid cruise control switch status serial data message from the BCM.
- This diagnostic runs continuously.

Actions Taken When the DTC Sets

DTC P0575 is a type C DTC.

Conditions for Clearing the DTC

DTC P0575 is a type C DTC.

Reference Information

Schematic Reference

CELL Link Error - Link target cell (cell ID 10758) is invalid for this publication.

Connector End View Reference

Component Connector End Views

Description and Operation

Cruise Control Description and OperationCruise Control Description and Operation (Distance Sensing Cruise Control)

Electrical Information Reference

- CELL Link Error - Link target cell (cell ID 62194) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61973) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 62112) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61965) is invalid for this publication.

DTC Type Reference

CELL Link Error - Link target cell (cell ID 161179) is invalid for this publication.

Scan Tool Reference

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for scan tool information

Circuit/System Verification

1. Verify that no DTCs are set, except DTC P0575.

   ⇒ **If any other DTC is set, except DTC P0575**

   Refer to CELL Link Error - Link target cell (cell ID 72795) is invalid for this publication..

   ⇓ **If only DTC P0575 is set**

2. Replace the K9 Body Control Module.
3. Verify DTC P0575 does not set when operating the vehicle within the Conditions for Running the DTC.

   ⇒ **If the DTC sets**

   Replace the K20 Engine Control Module.

   ⇓ **If the DTC does not set**

4. All OK.

Repair Instructions

Perform the CELL Link Error - Link target cell (cell ID 143214) is invalid for this publication. after completing the repair.

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for BCM or ECM replacement, programming, and setup.

DTC P0703

Diagnostic Instructions

- Perform the CELL Link Error - Link target cell (cell ID 72794) is invalid for this publication. prior to using this diagnostic procedure.
- Review CELL Link Error - Link target cell (cell ID 161235) is invalid for this publication. for an overview of the diagnostic approach.
- CELL Link Error - Link target cell (cell ID 161236) is invalid for this publication. provides an overview of each diagnostic category.

DTC Descriptor

DTC P0703: Brake Switch Signal Message Counter Incorrect

Circuit/System Description

The body control module (BCM) monitors the brake pedal position sensor. When the brake pedal is applied, the BCM detects a predetermined voltage signal. The BCM sends a serial data message to the engine control module (ECM) indicating the status of the stop lamps.

Conditions for Running the DTC

The engine is ON.

Conditions for Setting the DTC

- The ECM receives an invalid brake pedal status serial data message from the BCM.
- This diagnostic runs continuously.

Actions Taken When the DTC Sets

- The malfunction indicator lamp (MIL) will not illuminate.
- The cruise control system is disabled.

Conditions for Clearing the DTC

- The condition responsible for setting the DTC no longer exists.
- A history DTC will clear after 40 malfunction-free ignition cycles have occurred.

Reference Information

Schematic Reference

CELL Link Error - Link target cell (cell ID 10758) is invalid for this publication.

Connector End View Reference

Component Connector End Views

Description and Operation

Cruise Control Description and OperationCruise Control Description and Operation (Distance Sensing Cruise Control)

Electrical Information Reference

- CELL Link Error - Link target cell (cell ID 62194) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61973) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 62112) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61965) is invalid for this publication.

Scan Tool Reference

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for scan tool information

Circuit/System Verification

1. Verify that no DTCs are set, except DTC P0703.

   ⇒ **If any other DTC is set, except DTC P0703**

   Refer to CELL Link Error - Link target cell (cell ID 72795) is invalid for this publication..

   ⇓ **If only DTC P0703 is set**
2. Replace the K9 Body Control Module.
3. Verify DTC P0703 does not set when operating the vehicle within the conditions for running the DTC.

   ⇒ **If the DTC sets**

   Replace the K20 Engine Control Module.

   ⇓ **If the DTC does not set**
4. All OK.

Repair Instructions

Perform the CELL Link Error - Link target cell (cell ID 143214) is invalid for this publication. after completing the repair.

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for BCM or ECM replacement, programming, and setup.

DTC P1553 (Distance Sensing Cruise Control)

Diagnostic Instructions

- Perform the CELL Link Error - Link target cell (cell ID 72794) is invalid for this publication. prior to using this diagnostic procedure.
- Review CELL Link Error - Link target cell (cell ID 161235) is invalid for this publication. for an overview of the diagnostic approach.
- CELL Link Error - Link target cell (cell ID 161236) is invalid for this publication. provides an overview of each diagnostic category.

DTC Descriptor

DTC P1553: Distance Sensing Cruise Control Signal Message Counter Incorrect

Circuit/System Description

The engine control module (ECM) detects a serial communication failure associated with the adaptive cruise control axle torque request.

Conditions for Running the DTC

The ignition is ON.

Conditions for Setting the DTC

- The ECM detects a serial communication failure associated with the adaptive cruise control axle torque request.
- This diagnostic runs continuously.

Actions Taken When the DTC Sets

- The malfunction indicator lamp (MIL) will not illuminate.
- The cruise control system is disabled.

Conditions for Clearing the DTC

- The condition responsible for setting the DTC no longer exists.
- A history DTC will clear after 40 malfunction-free ignition cycles have occurred.

Diagnostic Aid

DTCs P1553 and/or P15F6 may be set by the ECM against the distance sensing cruise control module if an engine crank is made in conjunction to a bus wake up versus prior to a bus wake up (which occurs when a customer first opens the door and then cranks the engine). When the distance sensing cruise control module first wakes up, the internal microprocessor goes through an initialization that lasts less than 2 seconds. The DTCs can also be set if the battery voltage drops below 7 volts during a cranking condition. Under these conditions, the rolling count signal transmitted to the ECM for the distance sensing cruise control module may freeze while the microprocessor re-initializes. No driver information center (DIC) service messages or tell-tales will be displayed.

Reference Information

Schematic Reference

- CELL Link Error - Link target cell (cell ID 10758) is invalid for this publication.
- Object Detection Schematics

Connector End View Reference

Component Connector End Views

Description and Operation

Cruise Control Description and OperationCruise Control Description and Operation (Distance Sensing Cruise Control)

Electrical Information Reference

- CELL Link Error - Link target cell (cell ID 62194) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61973) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 62112) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61965) is invalid for this publication.

Scan Tool Reference

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for scan tool information

Circuit/System Verification

Note: Do not replace the K14 Distance Sensing Cruise Control Module or K20 Engine Control Module if DTC P1553 or P15F6 are stored as history DTCs. This is a known issue that has no impact to system function and does not require any additional repair, programming or module replacement.

1. Verify that no DTCs are set, except DTC P1553.

   ⇒ **If any other DTC is set, except DTC P1553**

   Refer to CELL Link Error - Link target cell (cell ID 72795) is invalid for this publication..

⇓ **If only DTC P1553 is set**

2. Replace the K14 Distance Sensing Cruise Control Module.
3. Verify DTC P1553 does not set when operating the vehicle within the conditions for running the DTC.

⇒ **If the DTC sets**

Replace the K20 Engine Control Module.

⇓ **If the DTC does not set**

4. All OK.

Repair Instructions

Perform the CELL Link Error - Link target cell (cell ID 143214) is invalid for this publication. after completing the repair.

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for distance sensing cruise control module or ECM replacement, programming, and setup

DTC P15F6 (Distance Sensing Cruise Control)

Diagnostic Instructions

- Perform the CELL Link Error - Link target cell (cell ID 72794) is invalid for this publication. prior to using this diagnostic procedure.
- Review CELL Link Error - Link target cell (cell ID 161235) is invalid for this publication. for an overview of the diagnostic approach.
- CELL Link Error - Link target cell (cell ID 161236) is invalid for this publication. provides an overview of each diagnostic category.

DTC Descriptors

DTC P15F6: Front Object Detection Control Module Torque Request Signal Message Counter Incorrect

Circuit/System Description

The distance sensing cruise control module is constantly sending a serial data message to the engine control module requesting engine speed or torque reduction. The engine control module sets DTC P15F6 when it detects a discrepancy in the structure of the message causing the integrity of the message to be questioned. An intermittent fault in the serial data circuits will cause the engine control module to set DTC P15F6.

Conditions for Running the DTC

Engine running.

Conditions for Setting the DTC

The engine control module detects that the engine speed and torque modification messages from the distance sensing cruise control module are either corrupted or intermittently missing.

Action Taken When the DTC Sets

- The distance sensing cruise control module sends a serial data message to display the appropriate indicator message
- The distance sensing cruise control module features are unavailable.

Conditions for Clearing the DTC

- The condition for the DTC is no longer present.
- The engine control module clears the history DTC when a current DTC is not detected in 40 consecutive drive cycles.

Diagnostic Aid

This is an informational DTC set by the engine control module. It is set to provide an indication that the distance sensing cruise control module will not be able to perform as intended. Diagnose any other DTCs first.

DTCs P1553 and/or P15F6 may be set by the ECM against the distance sensing cruise control module if an engine crank is made in conjunction to a bus wake up versus prior to a bus wake up (which occurs when a customer first opens the door and then cranks the engine). When the distance sensing cruise control module first wakes up, the internal microprocessor goes through an initialization that lasts less than 2 seconds. The DTCs can also be set if the battery voltage drops below 7 volts during a cranking condition. Under these conditions, the rolling count signal transmitted to the ECM for the distance sensing cruise control module may freeze while the microprocessor re-initializes. No driver information center (DIC) service messages or tell-tales will be displayed.

Reference Information

Schematic Reference

CELL Link Error - Link target cell (cell ID 10758) is invalid for this publication.

Connector End View Reference

Component Connector End Views

Description and Operation

Cruise Control Description and OperationCruise Control Description and Operation (Distance Sensing Cruise Control)

Electrical Information Reference

- CELL Link Error - Link target cell (cell ID 62194) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61973) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 62112) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61965) is invalid for this publication.

Scan Tool Reference

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for scan tool information

Circuit/System Verification

Note:

- DTC P15F6 is an informational DTC.
- Diagnose all other K20 Engine Control Module DTCs prior to DTC P15F6.
- Do not replace the K14 Distance Sensing Cruise Control Module or K20 Engine Control Module if DTC P1553 or P15F6 are stored as history DTCs. This is a known issue that has no impact to system function and does not require any additional repair, programming or module replacement.

1. Verify there are no other K20 Engine Control Module or communication DTCs set.

   ⇒ **If a DTC is set**

   Refer to CELL Link Error - Link target cell (cell ID 72795) is invalid for this publication.

   ⇓ **If a DTC is not set**

2. Complete the diagnosis by looking for an intermittent serial data circuit fault. Refer to CELL Link Error - Link target cell (cell ID 148082) is invalid for this publication..

   ⇒ **If an intermittent serial data circuit fault is found**

   Repair as necessary.

   ⇓ **If an intermittent serial circuit fault is not found**

3. Clear DTCs and operate the vehicle in the conditions that the customer experienced.
4. Verify DTC P15F6 does not set.

   ⇒ **If the DTC sets**

   Replace K14 Distance Sensing Cruise Control Module.

   ⇓ **If the DTC does not set**

5. All OK.

Repair Instructions

Perform the CELL Link Error - Link target cell (cell ID 143214) is invalid for this publication. after completing the repair.

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for distance sensing cruise control module replacement, programming, and setup.

Symptoms - Cruise Control

Note: The following steps must be completed before using the symptom tables.

1. Before using the symptom diagnostic table, perform the CELL Link Error - Link target cell (cell ID 72794) is invalid for this publication. in order to verify the following conditions:
    - There are no DTCs set.
    - The module can communicate via the serial data.
2. Review the system operation in order to understand the system functions. Refer to Cruise Control Description and OperationCruise Control Description and Operation (Distance Sensing Cruise Control).

Visual/Physical Inspection

- Inspect for aftermarket devices which can affect the operation of the Cruise Control System. Refer to CELL Link Error - Link target cell (cell ID 62100) is invalid for this publication..
- Inspect the accessible system components or the visible system components for obvious damage or for obvious conditions which can cause the symptom.

Intermittent

Faulty electrical connections or wiring may be the cause of intermittent conditions. Refer to CELL Link Error - Link target cell (cell ID 62112) is invalid for this publication..

Symptom List

Refer to a symptom diagnostic procedure from the following list in order to diagnose the symptom:

- Cruise Control Malfunction - DTC B3794, P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A-P155C, or P162C
- Cruise Control Indicator Malfunction

Cruise Control Indicator Malfunction

Diagnostic Instructions

- Perform the CELL Link Error - Link target cell (cell ID 72794) is invalid for this publication. prior to using this diagnostic procedure.
- Review CELL Link Error - Link target cell (cell ID 161235) is invalid for this publication. for an overview of the diagnostic approach.
- CELL Link Error - Link target cell (cell ID 161236) is invalid for this publication. provides an overview of each diagnostic category.

Circuit/System Description

The instrument cluster illuminates the cruise control engaged indicator based on serial data messages received from the engine control module (ECM). The indicator is commanded ON when the cruise control system is controlling vehicle speed, and turned OFF with the system disengaged.

Reference Information

Schematic Reference

CELL Link Error - Link target cell (cell ID 10758) is invalid for this publication.

Connector End View Reference

Component Connector End Views

Description and Operation

Cruise Control Description and OperationCruise Control Description and Operation (Distance Sensing Cruise Control)

Electrical Information Reference

- CELL Link Error - Link target cell (cell ID 62194) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61973) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 62112) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61965) is invalid for this publication.

Scan Tool Reference

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for scan tool information

Circuit/System Verification

1. Verify the cruise control indicator turns ON and OFF when commanding the All Indicators ON and OFF with a scan tool.

   ⇒ **If the indicator does not turn ON and OFF**

   Replace the P16 Instrument Cluster.

   ⇓ **If the indicator turns ON and OFF**

2. All OK.

Repair Instructions

Perform the CELL Link Error - Link target cell (cell ID 143214) is invalid for this publication. after completing the repair.

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for instrument cluster replacement, programming and setup.

Cruise Control Malfunction - DTC B3794, P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A-P155C, or P162C

Diagnostic Instructions

- Perform the CELL Link Error - Link target cell (cell ID 72794) is invalid for this publication. prior to using this diagnostic procedure.
- Review CELL Link Error - Link target cell (cell ID 161235) is invalid for this publication. for an overview of the diagnostic approach.
- CELL Link Error - Link target cell (cell ID 161236) is invalid for this publication. provides an overview of each diagnostic category.

DTC Descriptors

DTC B3794 08: Cruise Control Function Request Circuit

DTC B3794 61: Cruise Control Function Request Circuit

DTC P0564: Cruise Control Multifunction Switch Circuit

DTC P0565: Cruise Control Switch Circuit

DTC P0567: Cruise Control Resume Switch Circuit

DTC P0568: Cruise Control Set Switch Circuit

DTC P056C: Cruise Control Cancel Switch Circuit

DTC P0580: Cruise Control Multifunction Switch Circuit Low Voltage

DTC P0581: Cruise Control Multifunction Switch Circuit High Voltage

DTC P155A: Cruise Control Switch State Undetermined

DTC P155B: Cruise Control Set/Coast Switch 2 Circuit

DTC P155C: Cruise Control Resume/Acceleration Switch 2 Circuit

DTC P162C: Vehicle Speed Limiting/Warning Switch Circuit

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Ignition	1	1	—	—
Signal	1	P0564	B3794 08, P0567, P0568	B3794 61, P0564
1. Cruise Control Malfunction				

Circuit/System Description

The cruise control switch is an input to the body control module (BCM). The BCM monitors the cruise control on/off, set/coast, resume/accelerate and cancel switches via the cruise control switch signal circuit in order to detect when the driver has requested to perform a cruise control function. The BCM detects a specific voltage signal on the cruise control switch signal circuit when a switch is applied. The engine control module (ECM) receives the requested cruise control switch function from the BCM via a serial data message.

Conditions for Running the DTC

- The cruise switch is ON.
- The ignition is ON.

Conditions for Setting the DTC

B3794 08

The BCM detects an invalid voltage signal on the cruise control switch signal circuit for 1 second.

B3794 61

Stuck switch for either Resume/Accel or Set/Coast button for 60 seconds.

P0564, P0565, P0567, P0568, P056C

- The BCM detects an invalid voltage signal on the cruise control switch signal circuit for greater than 2 seconds and sends a serial data message to the ECM. The ECM sets these DTCs when the message is received.
- The ECM runs this diagnostic continuously.

P0580, P0581

- The ECM detects an invalid voltage signal on the cruise control switch signal circuit.
- The above condition is present for greater than 2 seconds.
- The ECM runs this diagnostic continuously.

P155A

The ECM is unable to determine the state of the cruise control switch.

P162C

The ECM is unable to determine the state of the vehicle speed limiting switch.

Actions Taken When the DTC Sets

B3794

- The malfunction indicator lamp (MIL) will not illuminate.
- The cruise control system is disabled.

P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A, P162C

DTCs P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A and P162C are type C DTCs

Conditions for Clearing the DTC

B3794

- The condition responsible for setting the DTC no longer exists.
- A history DTC will clear after 40 malfunction-free ignition cycles have occurred.

P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A, P162C

DTCs P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A and P162C are type C DTCs.

Reference Information

Schematic Reference

CELL Link Error - Link target cell (cell ID 10758) is invalid for this publication.

Connector End View Reference

Component Connector End Views

Description and Operation

Cruise Control Description and OperationCruise Control Description and Operation (Distance Sensing Cruise Control)

Electrical Information Reference

- CELL Link Error - Link target cell (cell ID 62194) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61973) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 62112) is invalid for this publication.
- CELL Link Error - Link target cell (cell ID 61965) is invalid for this publication.

Scan Tool Reference

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for scan tool information

Circuit/System Verification

1. Ignition ON.
2. Verify that the stop lamps operate properly and that no B22 Brake Pedal Position Sensor related DTCs are set.
   ⇒ **If brake pedal position sensor related DTCs are set**
   Refer to CELL Link Error - Link target cell (cell ID 72795) is invalid for this publication.
   ⇓ **If no brake pedal position sensor related DTCs are set**
3. Verify the scan tool BCM Cruise Control Switch Status parameter changes between Off and On, Resume and Set when switching between each position on the cruise control switch.
   ⇒ **If the parameter does not change**
   Refer to Circuit/System Testing.
   ⇓ **If the parameter changes**
4. Verify that no conditions that may inhibit cruise control operation are present. Refer to the ECM scan tool data list Cruise Control Inhibit Reason parameter. Refer to the Cruise Control Description and OperationCruise Control Description and Operation (Distance Sensing Cruise Control) for a list of inhibit reasons.
   ⇒ **If the cruise control system has a reason why it is inhibited**
   Repair the condition that is causing the inhibit reason.
   ⇓ **If the cruise control system does not have any reasons why it may be inhibited**
5. Verify that no cruise control related DTCs are set.
   ⇒ **If any cruise control related DTCs are set**

Refer to Circuit/System Testing.

⇓ **If no cruise control related DTCs are set**

6. All OK.

Circuit/System Testing

Note:

- An open ignition circuit or fuse before the control module will cause communication DTCs or power mode mismatch DTCs to set against or in the control module. This failure mode will be diagnosed in the no communications diagnostic procedure or power mode mismatch.
- This test assumes the ignition circuit has a driver that will open under a high current condition before the fuse opens.
- The driver can open under normal conditions such as battery run down protection or a retained accessory power mode.

1. Ignition OFF, disconnect the harness connector at the S70L Steering Wheel Controls Switch-Left, ignition ON.

2. Verify a test lamp illuminates between the ignition circuit terminal 1 and ground.

⇒ **If the test lamp does not illuminate**

2.1. Ignition OFF, disconnect the harness connector at the K9 Body Control Module.

2.2. Test for greater than 100 Ω between the ignition circuit and ground.

⇒ If 100 Ω or less, repair the short to ground on the circuit.

⇓ If greater than 100 Ω

2.3. Test for less than 2 Ω in the ignition circuit end to end.

⇒ If 2 Ω or greater, repair the open/high resistance in the circuit.

⇒ If less than 2 Ω, test or replace the K9 Body Control Module.

⇓ **If the test lamp illuminates**

3. Verify the scan tool ECM Cruise Control Switch Status parameter is Off.

⇒ **If not Off**

3.1. Ignition OFF, disconnect the harness connector at the K9 Body Control Module, ignition ON.

3.2. Test for less than 1 V between the signal circuit terminal 3 and ground.

⇒ If 1 V or greater, repair the short to voltage on the circuit.

⇒ If less than 1 V, replace the K9 Body Control Module.

⇓ **If Off**

4. Install a 3 A fused jumper wire between the signal circuit terminal 3 and the ignition circuit terminal 1.

5. Verify the scan tool ECM Cruise Control parameter is Disabled.

⇒ **If not Error**

5.1. Ignition OFF, disconnect the harness connector at the K9 Body Control Module.

5.2. Test for infinite resistance between the signal circuit terminal 9 and ground.

⇒ If less than infinite resistance, repair the short to ground on the circuit.

⇓ If infinite resistance

5.3. Test for less than 2 Ω in the signal circuit end to end.

⇒ If 2 Ω or greater, repair the open/high resistance in the circuit.

⇒ If less than 2 Ω, replace the K9 Body Control Module.

⇓ **If Error**

6. Test or replace the S70L Steering Wheel Controls Switch-Left.

Repair Instructions

Perform the CELL Link Error - Link target cell (cell ID 143214) is invalid for this publication. after completing the repair.

CELL Link Error - Link target cell (cell ID 72864) is invalid for this publication. for BCM replacement, programming and setup.

Repair Instructions

Distance Sensing Cruise Control Module Learn Procedure

After replacing and programming the K14 Distance Sensing Cruise Control Module, it is necessary to perform a learn procedure to align the radar. This is indicated to the technician by DTC C056E 4B. The learn procedure is performed while driving the vehicle with the scan tool connected. The learn procedure is initialized using a scan tool and the scan tool must remain connected until the learn procedure is complete. During this time a Vehicle Ahead tell-tale will be displayed on the Instrument Panel Cluster (IPC) and it will flash. Once the learn procedure is complete, the Vehicle Ahead tell-tale on the IPC will turn off.

If the learn procedure is not successful, it could be due to an improper driving environment, a module and bracket assembly bent out of position or an incorrect module mounting. A typical driving environment is usually sufficient to learn the module within 10–30 minutes.

Module Learn Procedure

1. Verify no other DTCs except for C056E 4B Electronic Control Unit Software are present. Repair any other DTCs before performing this learn procedure.
2. Prior to driving the vehicle make sure the surface in front of the distance sensing cruise control module is clean. Also verify the mounting area is not damaged and allows the module to face in the intended direction.
3. Prepare the scan tool to be mobile for the driving phase of the learn procedure. The scan tool needs to stay connected during the driving phase of the learn procedure.
4. Start the engine.
5. Initiate the learn procedure on the scan tool by selecting the Configuration/Reset Functions, then select Distance Sensing Cruise Control Module. The IPC will display “Service Adaptive Cruise Control” and the Vehicle Ahead tell-tale will flash during the procedure. Do not back out of this screen or press any other buttons until the learn procedure is complete.
6. Drive the vehicle within the following conditions for 10–30 minutes or until the learn procedure is complete. The Service Adaptive Cruise Control message and the Vehicle Ahead tell-tale will turn off when the learn procedure is complete.
    - Drive at speeds greater than 50 kph (30 mph).
    - Minimize tight curves.
    - Avoid extreme acceleration or deceleration.
    - Drive in an environment that has stationary objects on the side of the road (street signs, guard rails, mail boxes, fences, etc.).
7. Verify proper learn procedure completion by monitoring the Automatic Alignment Learn Progress parameter on the scan tool. The learn procedure is complete when the Automatic Alignment Learn Progress parameter reaches 100%. Once this parameter reaches 100% the Vehicle Ahead tell-tale and the Service Adaptive Cruise Control messages will turn off.
8. If the Vehicle Ahead tell-tale and the Service Adaptive Cruise Control messages fail to turn off:
    - Verify correct learn procedure operating conditions were followed. If necessary repeat the learn procedure while following the recommended learn procedure operating conditions
    - Verify that DTC C1002 Distance Sensing Cruise Control Module Performance is not set. Repair any DTCs that may have set before repeating the learn procedure..
9. Once the learn procedure is complete drive the vehicle at speeds greater than 40 kph (25 mph) and verify engagement of the adaptive cruise control system. Refer to the owner’s manual for instructions on how to engage the adaptive cruise control system.

If Module is Slow to Calibrate

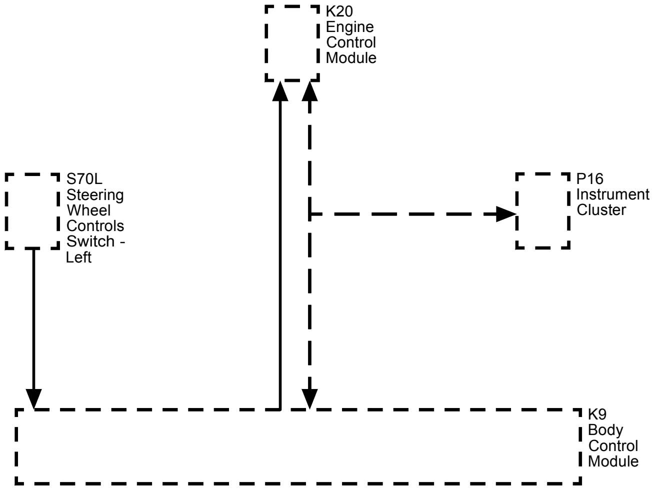
One or more of the following conditions may increase the length of time required to complete the learn procedure:

- Heavy traffic. Following too close behind vehicles for long periods of time (more than 40 minutes).
- Stop and go or very slow traffic.
- Mountain roads.
- Constant sharp curves in roadway.
- No traffic. If no traffic is available, the vehicle ahead may need to be added to support learning.
- Limited or no stationary structures on the side of the road. Structures such as street signs, guard rails, mail boxes and parked cars are needed to complete the learn procedure.
- Driving in tunnels.

Description and Operation

Cruise Control Description and Operation

Cruise Control System Block Diagram



Cruise control is a speed control system that maintains a desired vehicle speed under normal driving conditions at speeds above 40 km/h (25 mph). Steep grades may cause variations in the selected vehicle speeds.

The following are the main components of the Cruise Control System:

- The accelerator pedal
- The brake pedal position (BPP) sensor
- The body control module (BCM)
- The cruise on/off switch
- The cruise control cancel switch
- The + RES switch (equivalent to resume/accel switch)
- The − SET switch (equivalent to set/coast switch)
- The engine control module (ECM)
- The throttle actuator control (TAC) motor (gasoline engines only)
- The vehicle speed sensor

The body control module (BCM) monitors the signal circuit of the cruise control switches, which are located on the steering wheel. The BCM relays the cruise control switch status to the engine control module (ECM) via the serial data circuit. The ECM uses the status of the cruise control switch to determine when to capture and maintain the vehicle speed. The ECM monitors the vehicle speed signal circuit in order to determine the desired vehicle speed.

Voltage is supplied to the cruise control switch via the steering wheel control switch reference voltage circuit supplied by the BCM. The cruise control function switches are arranged in a resistive ladder design, with each cruise control function switch having a different resistance value. The BCM detects a specific voltage value that is associated with the cruise control function switch being activated. The BCM sends a serial data message to the ECM indicating that the on/off switch is active. Similarly, when the normally open + RES switch or the normally open − SET switch are pressed, the switch closes and the BCM detects the predetermined voltage signal on the cruise control resume/accel and set/coast switch signal circuit. The BCM sends a serial data message to the ECM indicating that the + RES switch or the − SET switch is active.

Cruise Control Engaged

The Cruise Control System will engage and adjust vehicle speeds, based on the activation of the following cruise control switches, which are located on the steering wheel:

- On/Off

- + RES
- − SET

To engage the Cruise Control System, ensure that the vehicle speed is above 40.2 km/h (25 mph), turn the cruise On/Off switch ON and momentarily press the − SET switch. The ECM will engage the Cruise Control System and record the vehicle speed. The ECM sends a serial data message to the instrument panel cluster (IPC) in order to illuminate the Cruise Engaged indicator in the IPC. Refer to the vehicle owner’s manual for the location and operation of the cruise control On/Off indicators and driver information center (DIC) messages.

Pressing the accelerator pedal while the Cruise Control System is engaged, allows the driver to override the Cruise Control System in order to accelerate the vehicle beyond the current set vehicle speed. When the accelerator pedal is released, the vehicle will decelerate and resume the current set vehicle speed.

The driver can also override the current set vehicle speed via the − SET switch and the + RES switch. When the Cruise Control System is engaged, pressing and holding the − SET switch will allow the vehicle to decelerate from the current set vehicle speed without deactivating the Cruise Control System. When the − SET switch is released, the ECM will record the vehicle speed and maintain the vehicle speed as the new set vehicle speed. When the Cruise Control System is engaged, momentarily pressing the − SET switch will allow the vehicle to decelerate at a vehicle specific calibratable increment, commonly 1.6 km/h (1 mph), each time that the − SET is momentarily pressed, with a minimum vehicle speed of 38 km/h (24 mph). Refer to the vehicle Owner’s Manual for more information.

Pressing and holding the + RES switch, when the Cruise Control System is engaged, will allow the vehicle to accelerate to a greater vehicle speed than the current set vehicle speed. When the + RES switch is released, the ECM will record the vehicle speed and maintain the vehicle speed as the new set vehicle speed. When the Cruise Control System is engaged, momentarily pressing the + RES switch will allow the vehicle to accelerate at a vehicle specific calibratable increment, commonly 1.6 km/h (1 mph), each time that the + RES switch is momentarily pressed. Momentarily activating the + RES switch will recall the previous vehicle speed, after the cruise control system has been disengaged by pressing the brake pedal, or CANCEL switch. Refer to the vehicle Owner’s Manual for more information.

Cruise Control Disengaged

The engine control module (ECM) disengages the cruise control operation based on the signals from the following switches:

- The brake pedal position (BPP) sensor
- The On/Off switch
- The cruise control cancel switch

The Cruise Control System will disengage when the brake pedal is applied. The body control module (BCM) monitors the BPP sensor via the BPP sensor signal circuit as the voltage signal increases while the pedal is further applied. The ECM monitors the BPP signal through a discrete input and a serial data message signal from the BCM indicating the brake status. When either signal indicates the brake pedal is applied, the ECM will disengage the cruise control system.

The Cruise Control System will also disengage when the cruise control on/off switch is switched OFF, or the cruise control cancel switch is activated. The body control module (BCM) determines when the cruise control cancel switch is activated. When the normally open cancel switch is closed, the BCM detects the predetermined voltage signal on the cruise control function switch circuit. The vehicle speed stored in the memory of the engine control module will be erased when the cruise control On/Off switch is turned OFF, or the ignition switch is turned OFF. The BCM sends a serial data message to the ECM in order to disengage the cruise control system. When the Cruise Control System has been disengaged, the ECM sends a serial message to the instrument panel cluster (IPC) in order to turn OFF the Cruise Engaged indicator.

Every time the Cruise Control System is disengaged, the ECM will keep track of the reason for system disengagement. The last 8 disengagement reasons will be recorded within the ECM memory. The scan tool will display the last 8 Cruise Disengage History parameters, in which one out of approximately 50 possible reasons will be displayed in each of these 8 parameters. For the disengagement reason to be displayed within the scan tool parameter the Cruise Control System is active and disengagement is requested.

When engagement of the system is requested but an engagement inhibit is present, the most recent inhibit reason is recorded in the ECM history. The scan tool will display the most recent inhibit reason, in which one out of approximately 50 possible reasons will be displayed.

Cruise Control Inhibited

The engine control module (ECM) inhibits the cruise control operation when any of the following conditions exist:

- The ECM has not detected a brake pedal activation from the body control module (BCM) this ignition cycle.
- A Cruise Control System DTC has been set.
- The vehicle speed is less than 38.6 km/h (24 mph).
- The vehicle speed is too high.
- The vehicle is in PARK, REVERSE, NEUTRAL, or 1st gear.
- The engine RPM is low.
- The engine RPM is high.
- The system voltage is not between 9 volts and 16 volts.
- The Antilock Brake System (ABS)/Traction Control System (TCS) is active for more than a calibratable time (typically 0.3 to 0.7 seconds).

Cruise Control Inhibit Reasons

This is a general list of inhibit reasons. Not every inhibit reason is applicable to all vehicles. Refer to the scan tool inhibit reason list for the last 8 reasons that have been recorded during the current ignition cycle.

Scan Tool Name	Description	Long Description
ACC BRAKE INOP	Adaptive Cruise Control Automatic Braking Failed	Adaptive Cruise Control Automatic Braking Inoperative

ACC DATA	Serial data fault for Adaptive Cruise Control Throttle Control and Brake Control signals sent by Adaptive Cruise Control module	Adaptive Cruise Control Module serial data fault is active or communication has been lost between ACC module and ECM.
ACC INHIBIT	Adaptive Cruise Control Inhibited	Adaptive Cruise Control Inhibited
ACC OPTION	Adaptive Cruise Control option mismatch	Cruise control type (adaptive cruise or conventional cruise) mismatched between ECM and BCM.
ACCEL RATE	High acceleration	Vehicle acceleration rate is too high.
Accel Time	Rate Limiting Fault	Cruise torque request rate limiting active too long
APP OVERRIDE	Pedal greater than cruise (override)	Driver has overridden cruise control set speed with accelerator pedal for greater than an allowable time.
Auto Brk Data	Automatic Braking Engine Torque Request Signal Communication Malfunction	ECM to EBCM serial data fault is active or communication has been lost between ECM and EBCM.
AXLE RANGE	Rear Axle Low	Rear axle in low range
BPP DATA	DTC P0703 active or maximum time elapsed without receiving valid Brake Pedal Position signal.	Serial data fault is active or communication has been lost with module sending brake pedal apply state
BPP DTC	Brake Pedal Position signal invalid	Brake Pedal Apply Circuit fault has been detected.
BPP Not Learned	Brake Apply Sensor Home Position Not Learned	Brake Pedal Position Sensor Released Position Not Learned.
BRAKE	Brake pedal apply	Brake Pedal was applied.
Brk Ped Press	Brake Pedal Driver Applied Pressure Detected	A Brake Pedal Apply has been detected based on brake pedal pressure as measured by the EBCM.
Calc Eng Torque	Calculated Torque	Engine torque calculation is incorrect.
CANCEL	Cancel switch active	Cancel Switch was depressed.
CLUTCH	Clutch switch active	Clutch Pedal was applied.
COAST DISENGAGE	Coast disengage	Cruise control is in coast mode with the Set/Coast switch depressed and is requesting no throttle
COAST SPEED LOW	Coast below low speed inhibit	Set / Coast switch was depressed. Vehicle slowed below minimum cruise operating speed.
Cruise Brk Inop	Brake System Malfunction	EBCM has detected a failure that does not allow automatic braking to be performed.
CRUISE S/W	Sequence of completion checks	Cruise control software execution error has occurred.
CRUISE SW DATA	Serial data fault (Cruise switch serial communication fault)	Cruise switch serial data fault is active or communication has been lost with module sending cruise switch states
CRUISE SW. OFF	On/Off switch in Off state	Cruise On/Off switch turned Off
DECEL RATE	High deceleration	Vehicle deceleration rate is too high.
DLC OVERRIDE	ALDL	Scan Tool plugged into ALDL connector

DTC SET	Malfunction in PCM/ECM (DTC active)	DTC is active or in history that inhibits cruise control operation.
D WHL SPD HI	Driven Whl Spd Greater (wheel slip detection)	Driven wheel speed greater than Non Driven wheel speed (slip detection)
D WHL SPD LOW	Un-driven Whl speed Greater	Non Driven wheel speed greater than driven wheel speed
ECM INHIBIT	PCM/ECM inhibit (RAM corruption)	ECM internal communication error
ECM RESET	ECM Running Reset	ECM Running Reset occurred
ECT OVERTEMP	Engine metal overtemp active	Engine over temperature. Overheated.
ENG RUN TIME	Engine run time not elapsed	Engine has not been running long enough, typically five seconds.
ENGINE SPEED	Engine speed too low or too high	Engine RPM too low (near stall) or too high (near engine RPM fuel shutoff).
FIRST GEAR	1st Gear	Transmission is engaged in 1st gear
HIGH SPEED	Vehicle speed exceeds high speed threshold	Vehicle speed has exceeded maximum cruise operating speed
HIGH VOLTAGE	Voltage above high voltage threshold	Ignition Voltage High at ECM (typically 18 volts)
ILLEGAL MODE	Illegal cruise mode	Cruise control mode is incorrect based on switch states.
LOST FWD GEAR	Transmission in neutral. Reverse or park	Gear selector not in forward gear
LOW SPEED	Vehicle speed drops below low speed threshold	Vehicle speed dropped below the cruise control minimum operating speed. May be due to hilly terrain and low vehicle speed. Manual transmission gear selection and engine torque may contribute to this disengagement reason.
LOW VOLTAGE	Voltage below low voltage threshold	Ignition Voltage Low at ECM (typically 9 volts)
MEMORY DTC	Memory Failure	Control module memory failure detected.
MPH LIMIT	MPH Limited Fuel (Vehicle overspeed fuel cut-off active)	Vehicle overspeed protection active with fuel cut off active
M/T Gear Changed	Manual transmission out of gear with no clutch pedal apply	Manual transmission shifted to Neutral without clutch pedal being applied.
NONE	None	This disengagement reason may be displayed after a dead battery repair or module replacement.
OVER SET SPEED	Over schedule	Vehicle speed has exceeded driver selected set speed by more than an allowable amount. This may occur while driving down a significant grade or driver overriding cruise while performing a passing maneuver.
PARK BRAKE	Park Brake Switch signal Active	Parking Brake Applied

PEDAL INITIALIZE	Brake before cruise	The brake pedal has not been seen as applied prior to driver request to engage cruise with set switch. A brake pedal apply must be seen before allowing cruise engagement during each key cycle. On a vehicle equipped with a manual transmission, a clutch pedal apply may satisfy the brake pedal apply criteria.
PTO ACTIVE	Power Take Off Active	Power Take Off is active.
Ram DTC	Processor Integrity Fault (Ram corruption)	ECM software error has occurred
RPM LIMIT	Injectors Disabled (Engine overspeed fuel cut-off active)	Engine RPM limiter active with fuel cut off active.
S/C ON SPEED HI	Over schedule tap-down	Set/Coast switch selected, vehicle speed is above set speed and does not decrease. May be due to traveling down hill
SIMUL S/C-R/A	SET and RESUME switches simultaneously active	Set/Coast and Resume Accelerate switches pressed simultaneously
SL/W Sys On	Speed Limiter / Warning On/Off switch turned on	Driver has turned on the Speed Limiter/Warning on/off switch. Cruise is disabled / inhibited and cruise on/off switch will be set to OFF.
SW. INVALID	Analog cruise switch input out of range	Cruise switch voltage signal in invalid range
TAC INHIBIT	ETC prevents cruise operation	Electronic Throttle Control has detected a failure in the throttle control hardware
TCS	Traction control active	Traction Control was Active
TRANS DTC	Trans Gear Fault	Transmission DTC is active or in history that inhibits cruise control operation
UNDER SET SPEED	Under schedule	Vehicle speed is below cruise control set speed by more than an allowable amount
VSES	Vehicle stability active	Vehicle Stability Control was active
4WD Low	4WD Low	Transfer case in low range

Cruise Control Description and Operation (Distance Sensing Cruise Control)

Adaptive Cruise Control (ACC)

The Adaptive Cruise Control System (ACC) is an enhanced Cruise Control System with the ability to sense and react to forward traffic. Compared to the common Cruise Control System found on many vehicles, the main functional enhancement of the ACC System is the ability to detect the presence of a vehicle in the path of the ACC vehicle. The ACC retains the existing cruise control feature that controls the vehicle speed to the driver selected speed. However, ACC allows a driver to set and maintain a following distance to the preceding nearest vehicle in the ACC vehicle path. The cruise control vehicle distance sensor module calculates a follow speed limit to ensure an acceptable distance is maintained to the preceding vehicle in front, should one be present. The ACC System automatically adjusts the speed of an ACC vehicle when the vehicle comes up behind a slower travelling vehicle in front. The ACC System applies limited automatic braking and throttle control without driver input when necessary to maintain the set following distance of the ACC vehicle. The preceding vehicle's speed and acceleration along with the ACC vehicle speed and acceleration and the distance between the two vehicles are factors used by the cruise control vehicle distance sensor module to determine the ACC follow speed limit. The ACC vehicle speeds up to the original driver selected set speed when the pathway becomes clear without driver input.

Adaptive Cruise Control (ACC) System Description

The Adaptive Cruise Control (ACC) System depends on various modules on the vehicle to function and each module performs a function that is critical to the proper operation of the ACC System. ACC will not operate if any components fail. Communication between modules is via the High-Speed GMLAN serial data circuit. The GMLAN utilizes the controller area network (CAN) communications protocol. The following is a functional description of the cruise control vehicle distance sensor module and the other associated components:

Cruise Control Vehicle Distance Sensor Module

The cruise control vehicle distance sensor module contains the radar and the controller. The cruise control vehicle distance sensor module utilizes the radar to identify and classify objects in the road environment. The radar scans the road environment to detect targets within its specified field of view. The controller then makes throttle and/or brake commands to the engine control module (ECM) and electronic brake control module (EBCM) via the GMLAN serial data circuit in order to control the vehicle acceleration/deceleration based on the data from the radar. The ECM and EBCM provide throttle control and automatic braking needed for proper cruise speed adjustment. The following is a list of the cruise control vehicle distance sensor module functions:

- The radar processes the road environment to get data concerning any vehicle ahead of the ACC vehicle. Detection, parameter estimation, tracking, object classification and diagnostics are the primary radar functions. When an object is detected, the controller calculates the object range, range rate, acceleration and azimuth angle parameters.
- The cruise control vehicle distance sensor module performs ACC state processing automatically – distance control or speed control. The ACC System operates in 2 possible states – Cruise or Follow. The normal operating state is Cruise, whereby the vehicle speed is controlled to match the driver selected set speed. When a preceding forward target is identified by the radar, the ACC System will automatically transition into the follow speed state to provide proper lane spacing behind the target vehicle in front. The preceding vehicle's speed and acceleration, with the ACC vehicle speed, acceleration and distance between the two vehicles will be used to determine the ACC follow speed limit. The ACC follow speed limit will ensure that an acceptable distance is maintained to the preceding vehicle.
- The cruise control vehicle distance sensor module determines the follow speed limit for throttle control by the ECM.
- The cruise control vehicle distance sensor module arbitrates the ACC System brake and throttle control between the EBCM and the ECM.
- The cruise control vehicle distance sensor module requests brake light activation during automatic braking.
- The cruise control vehicle distance sensor module provides operational feedback to the vehicle driver. The cruise control vehicle distance sensor module sends signals for telltales and messages to be displayed on the instrument cluster or driver information center.

Body Control Module (BCM)

The following are the ACC System functions provided by the BCM:

- The BCM provides a translating gateway for the high speed GMLAN serial data circuit.
- The BCM reads all cruise control switches and the gap switch. The cruise control vehicle distance sensor module monitors a variety of user operated switches from the BCM switch status information sent via the GMLAN serial data circuit.
- The BCM illuminates the brake light based on a GMLAN message from the cruise control vehicle distance sensor module during automatic braking.
- The BCM measures the brake pedal position and sends brake pedal travel status via GMLAN serial data circuit to the ECM. The ECM disengages the ACC System when the brake is applied by the driver pressing the brake pedal.
- The BCM serves as a gateway to the instrument cluster and driver information center. The BCM will generate visual warnings based on high speed GMLAN serial data messages from the cruise control vehicle distance sensor module.

Engine Control Module (ECM)

The following are the ACC System functions performed by the ECM:

- The ECM provides the electronic throttle control to the ACC System. The ECM is also responsible for determining when a driver is overriding the adaptive cruise control throttle position by pressing the accelerator pedal.
- The ECM processes the cruise control switch requests received via the GMLAN serial data circuit from the BCM. Engaging and disengaging the ACC System are functions performed by the ECM.
- The ECM determines the driver selected vehicle speed. Unless the ACC module requests a lower vehicle speed, the ECM will control the vehicle speed to the driver selected set speed.
- The ECM allows automatic braking without disengaging the ACC.

Antilock Brake System (ABS)

The following are the ACC System functions performed by the EBCM:

- The EBCM controls the operation of the Antilock Brake System.
- The EBCM provides automatic braking for the ACC System. The cruise control vehicle distance sensor module will request vehicle deceleration via high speed GMLAN serial data circuit.
- The EBCM determines when the driver–applied brake pressure is active. The EBCM will communicate this status via the GMLAN serial data circuit to the BCM.
- The EBCM releases vehicle automatic braking when there is a throttle override by the driver pressing the accelerator.

- The EBCM predicts brake temperatures. Due to automatic braking, the brake system may overheat. When the brakes are overheated, the EBCM requests the ACC System to be temporarily shut down by the ECM until the brakes cool to a normal operating temperature.

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Transmission Control Module (TCM)

The transmission control module (TCM) provides a down shift to protect the brakes. When the TCM detects some driver braking activity or ACC automatic braking activity, the TCM down shifts the vehicle transmission to increase engine braking. This helps reduce braking activity, extend brake pad life and reduce brake system overheating.

Driver Information Center

The driver information center is a part of the instrument cluster and displays the ACC System warning messages. The cruise control vehicle distance sensor module requests messages to be displayed on the driver information center by sending a GMLAN request to the BCM. The BCM sends a GMLAN serial data request to the instrument cluster demanding the display of the warning message. When the message is acknowledged by the driver and the cause of the message resolved, the driver information center turns the message off. The ACC System will not operate if the driver information center fails. The following are the ACC messages that can be displayed on the driver information center:

- Service ACC
- Front Radar Blocked Clean Front of Vehicle

Brake Pedal Position Sensor

The BCM monitors the brake pedal position sensor in order to determine when pressure is being applied to the brake by the driver stepping on the brake pedal. The brake pedal position sensor receives a low reference signal and a 5 V reference from the BCM. When the brake is applied, a signal is applied from the brake pedal position sensor through the brake pedal position sensor signal circuit to the BCM. The BCM utilizes this signal in deciding when to command the activation of the stop lamps. The BCM continuously sends signals via the GMLAN serial data circuit to the EBCM and the ECM reflecting the brake pedal position status. This will include the initial brake travel signal required for the activation of the ACC System. The ACC System will not engage unless the initial brake pedal travel signal is valid and received by the BCM. When the BCM brake pedal position signal indicates that brake pedal pressure is being applied by the driver when the ACC System is engaged, the ECM immediately disengages the ACC System. Re-engaging the ACC System will require the driver pressing the set or resume switch. Refer to CELL Link Error - Link target cell (cell ID 135694) is invalid for this publication. and to Exterior Lighting Systems Description and Operation for more information on the brake pedal pressure sensor.

Accelerator Pedal

Deceleration of the ACC vehicle to maintain a certain distance and speed while a slower moving vehicle is in its path is achieved through throttle control by the ECM and the application of light automatic braking by the EBCM. During automatic braking the ECM is commanded to release the throttle from the currently controlled cruise position by the cruise control vehicle distance sensor module. At the end of automatic braking, the ECM will control the vehicle speed to the current set vehicle speed. Driver throttle override occurs when the driver of the ACC vehicle depresses the accelerator pedal with the intention of requesting greater speed than the current throttle position. An example is an ACC vehicle driver stepping on the accelerator for a passing maneuver. The ECM continuously monitors the throttle and reports a throttle override condition. When no throttle override is present, automatic braking is allowed. When throttle override is detected by the ECM, automatic braking in not allowed to affect the vehicle acceleration.

Cruise Control Switch

The cruise control switch, functionally is a common feature that is shared between the Adaptive Cruise Control (ACC) System and the regular Cruise Control System. The ACC System will not operate if any cruise switch fails. The cruise control switch comprises the following cruise control function switches:

- On/Off switch
- Set/decrease switch
- Resume/increase switch

The cruise control function switches are arranged in a resistive ladder design whereby each switch function is set up with different resistance values. The BCM through the cruise control switch signal circuit detects a predetermined voltage value when any cruise control switch function is activated. The associated cruise control function signal detected by the BCM is then sent to the engine control module (ECM) as a GMLAN serial data circuit message. The ECM on receiving the message provides the cruise control function requested by the BCM. The ECM is responsible for recognizing and responding to cruise control switch requests sent by the BCM. The cruise control function switches are used by the ECM to communicate to the cruise control vehicle distance sensor module the driver selected vehicle speed. The driver selected vehicle speed is communicated through GMLAN serial data circuit to the cruise control vehicle distance sensor module and the BCM. The ACC System engages and adjusts vehicle speeds based on the activation of the following cruise control function switches:

On/Off Switch

The BCM monitors the switch signal circuit in order to determine when the On/Off switch is disabled or activated. The BCM detects a predetermined voltage value on the switch signal circuit. The On/Off switch state is then relayed to the ECM via the GMLAN serial data circuit. The ECM sends the On/Off switch input status to the cruise control vehicle distance sensor module. When the On/Off switch is turned ON, the ACC System enters either a standby enabled or a standby disabled mode. The standby enabled mode indicates that every condition required for the ACC System to function has been met, but the ACC is not engaged. When the ACC is in the standby disabled mode, the conditions necessary for the ACC System to function has not been met. When the On/Off switch is turned OFF, the ACC will enter the disabled mode. The ACC will not activate in the disabled mode.

Set/Decrease Switch

The ACC System is engaged when the ACC On/Off switch is turned ON and the set/decrease switch is momentarily pressed and released . When the set/decrease switch is pressed, the selected vehicle speed is set to the current vehicle speed by the ECM. The vehicle speed must be at or greater than 40 km/h (25 MPH). The selected vehicle speed is displayed by the driver information center. While in the engaged state, the selected vehicle speed and the following distance can be adjusted. Pressing and holding the set/decrease switch, when the ACC System is engaged, will decrease the selected vehicle speed without deactivating the ACC. Momentarily pressing and releasing the set/decrease switch, when the ACC is engaged, decreased the selected vehicle speed by 1.6 km/h (1 MPH) for each time that the set/decrease switch is pressed.

Resume/Increase Switch

The resume/increase switch is used in order to increase the selected vehicle speed when ACC is active. The amount selected vehicle speed can be increased from the resume/increase switch depends on how long the switch is pressed. The presence of a slower moving vehicle in the path of the ACC vehicle will limit the extent to which the selected vehicle speed can be achieved. If there is no preceding vehicle in front, limiting the ACC vehicle acceleration, then the vehicle speed that is attained is the new selected vehicle speed. The current selected vehicle speed is displayed by the driver information center. Acceleration is terminated when the resume/increase switch is released. Momentarily pressing and releasing the resume/increase switch will allow the selected vehicle to accelerate in at 1.6 km/h (1 MPH) increments for each time that the resume/increase switch is momentarily pressed.

Gap Switch

The gap switch allows the driver to determine how closely the adaptive cruise control (ACC) vehicle follows a target vehicle while ACC is engaged. When the ACC vehicle speed is being limited due to a slower travelling vehicle, the ACC vehicle speed is automatically controlled to the follow speed limit. The gap switch has 3 following distance selections that range from 1–2 s. The gap switch following distance between the ACC vehicle and the target vehicle is expressed in time as opposed to actual distance. The distance maintained for a selected gap will vary based on vehicle speed. The faster the vehicle speed, the further back you will follow. The gap setting can only be adjusted when the ACC System is engaged. The gap switch is hard-wired to the BCM. Based on voltage variations, the BCM is able to read the gap switch selection and communicates the switch status on the GMLAN serial data circuit to the cruise control vehicle distance sensor module. The gap switch is a momentary switch.

The initial push of the gap switch recalls the current setting and activates the display. Subsequent pushes of the gap switch will change the gap setting.

Cruise Indicators and Messages

SERVICE ACC

The cruise control vehicle distance sensor module commands the display of the SERVICE ACC message in the driver information center when it detects a malfunction in the Adaptive cruise control (ACC) System. The cruise control vehicle distance sensor module sends a request to the instrument cluster via the GMLAN serial data circuit to display the SERVICE ACC message in the driver information center. The SERVICE ACC is displayed in the driver information center only when a diagnostic condition is present. When the message is displayed in the driver information center the ACC System disengages.

FRONT RADAR BLOCKED CLEAN FRONT of VEHICLE

The FRONT RADAR BLOCKED CLEAN FRONT of VEHICLE message displays in the driver information center when the cruise control vehicle distance sensor module detects a blockage of the radar. The radar may be blocked by snow, ice, dirt, heavy rain or road spray. In rare instances, a vertically misaligned radar may trigger the activation of the FRONT RADAR BLOCKED CLEAN FRONT of VEHICLE message in the driver information center. The cruise control vehicle distance sensor module commands the display of the FRONT RADAR BLOCKED CLEAN FRONT of VEHICLE message via a GMLAN serial data circuit request to the instrument cluster. When the FRONT RADAR BLOCKED CLEAN FRONT of VEHICLE message is displayed in the driver information center, safely park the vehicle and turn OFF the ignition. Clean the front fascia cover to eliminate the blockage. It may also be necessary to clean both the outside surface of the cover, the inside surface of the cover and the cruise control vehicle distance sensor module surface. It is important to turn the ignition OFF before cleaning any of the named surfaces. This is because the FRONT RADAR BLOCKED CLEAN FRONT of VEHICLE message may still display in the driver information center after cleaning the three surfaces. Cycling the ignition to OFF for 10 s is necessary to clear the FRONT RADAR BLOCKED CLEAN FRONT of VEHICLE indicator if the indicator remains ON in the driver information center. If the FRONT RADAR BLOCKED CLEAN FRONT of VEHICLE indicator still remains ON after cleaning the radar and cycling the ignition, then the radar alignment will need to be checked and verified. Perform the CELL Link Error - Link target cell (cell ID 226428) is invalid for this publication. , if the radar is misaligned.

Cruise Engaged Indicator

The ACC engaged indicator is displayed in the instrument cluster when the ACC is engaged by pressing the set/decrease switch. When the set/decrease switch is pressed by the driver, the BCM forwards the switch state to the engine control module (ECM) over the GMLAN serial data circuit. The ECM will use the switch input information from the BCM to determine the driver intended vehicle speed. The ECM communicates to the cruise control vehicle distance sensor module over the GMLAN serial data circuit the ACC engaged state and the driver selected speed. When the cruise control vehicle distance sensor module receives the ECM message indicating that ACC is active, the cruise control vehicle distance sensor module commands the display of the ACC engaged indicator via a GMLAN serial data message to the instrument cluster.

Set Speed

The ACC vehicle set speed is displayed at all times in the driver information center when ACC is engaged. The cruise control vehicle distance sensor module set speed display request is sent to the instrument cluster via the GMLAN serial data circuit.

Follow Distance

The driver information center displays the driver selected following distance when ACC is engaged and the gap switch is active. The current follow distance setting is displayed in the driver information center for a few seconds after the gap switch is pressed to increase or decrease the following distance. The cruise control vehicle distance sensor module follow distance display request is sent to the instrument cluster via the GMLAN serial data circuit.

Vehicle Ahead Indicator

The vehicle ahead indicator is displayed in the instrument cluster hen the radar identifies an in-path vehicle. The vehicle ahead indicator is a warning to the driver that a vehicle is ahead. The indicator also serves as a feedback to the driver that the radar is functioning properly. The cruise control vehicle distance sensor module commands the display of the vehicle ahead indicator via a GMLAN serial data message to the instrument cluster. The vehicle ahead indicator only displays with the ACC active and may sometimes display for stationary road objects.

Cruise Engaged

The Adaptive Cruise Control (ACC) System will engage and adjust vehicle speeds based on the activation of the following cruise switches:

- On/off
- Set/decrease
- Resume/increase

ACC will not engage if any inhibit criteria is active. Also, the driver must step on the brakes at each ignition cycle before attempting to engage ACC. The engine control module (ECM) looks to the BCM for the brake initial travel achieved signal indicating that the driver has stepped on the brakes before attempting to engage ACC.

The vehicle speed must be above 45 km/h (28 MPH) and below 190 km/h (118 MPH) for the ACC System to be engaged. In the engaged state, the ACC System allows the driver to override the controlled vehicle speed temporarily while still remaining in the engaged state.

Cruise Inhibited

Cruise Control Vehicle Distance Sensor Module Inhibits

The cruise control vehicle distance sensor module inhibits the Adaptive Cruise Control (ACC) System when any of the following conditions exists:

- The SERVICE ACC message is active in the driver information center.
- Initial brake pedal travel signal from brake pedal position sensor is not present
- An ACC System malfunction and/or failure is present.
- The FRONT RADAR BLOCKED CLEAN FRONT of VEHICLE indicator is active in the driver information center.
- An invalid vehicle speed
- The Antilock Brake System (ABS) is active during automatic braking.
- The Cruise Switch failed message from the BCM is sent to the cruise control vehicle distance sensor module.
- Automatic braking failure – A GMLAN signal from the electronic brake control module (EBCM) the to cruise control vehicle distance sensor module indicating an automatic braking failure

- The brakes overheated signal from ABS
- The cruise control vehicle distance sensor module transceiver temperature is hot.
- The driver applied brake pressure.

ECM Inhibits

The ECM inhibits the ACC System operation when any of the following conditions exists:

- The ACC inhibited signal from cruise control vehicle distance sensor module is present.
- The vehicle speed is less than 45 km/h (28 MPH).
- The vehicle speed is greater than 190 km/h (118 MPH).
- Automatic braking failure – A GMLAN signal from EBCM to the ECM indicating an automatic braking failure
- The ACC present signal from the BCM is false.
- The driver applied brake pressure.
- A cruise control switch failure is present.
- The park brake switch signal from the IPM is active.
- A Throttle Actuator Control System failure is present.
- The Traction Control System is active.
- The ABS is active.
- The engine speed protection is active.
- The vehicle speed protection is active.
- The engine speed is too high or too low.
- The automatic transmission is in first gear, Park, Neutral or Reverse.
- The initial brake pedal travel signal from the brake pedal position sensor is not present.
- The system voltage is too low.

Cruise Disengaged

The Adaptive Cruise Control (ACC) System disengages when any of the following occurs:

- The driver depresses the brake pedal.
- The driver turns the ACC On/Off switch OFF.

Pressing the brake pedal while the ACC is engaged will disengage the ACC System.

Other Adaptive Cruise Control (ACC) Features

Mechanical Alignment

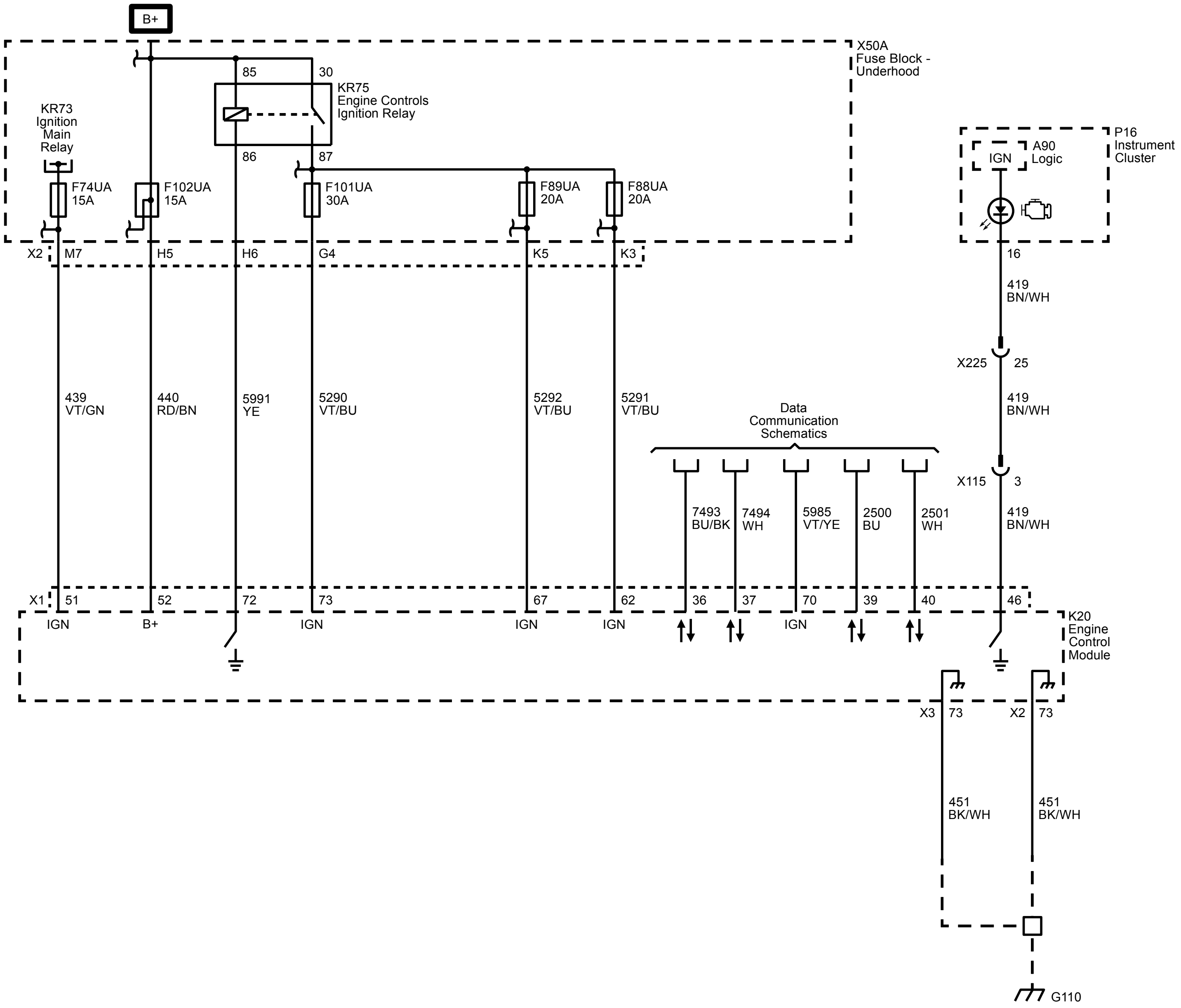
When the radar is out of alignment, DTC C1002 is set by the cruise control vehicle distance sensor module. When DTC C1002 is set, it becomes necessary to mechanically align the radar using the special alignment tool. Refer to DTC C1002. For further information on how to aim and align the radar, refer to CELL Link Error - Link target cell (cell ID 226428) is invalid for this publication.. An out of alignment condition may be as a result of tampering or damage to the cruise control vehicle distance sensor module mounting structures or the adjuster settings. An out of alignment condition may also be as a result of damage to the front end of the vehicle or merely as a result of wear and tear . Refer toCELL Link Error - Link target cell (cell ID 224682) is invalid for this publication. on how to properly mount and adjust the cruise control vehicle distance sensor module. Performance of the ACC System may be degraded after a cruise control vehicle distance sensor module replacement. Normal vehicle driving will correct the performance of the ACC System.

Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86)

Schematic and Routing Diagrams

Engine Controls Schematics

Module Power, Ground, Serial Data and MIL



B+
X50A
Fuse Block - Underhood
85
30
KR75
Engine Controls Ignition Relay
KR73
Ignition Main Relay
86
87
F74UA
15A
F102UA
15A
F101UA
30A
F89UA
20A
F88UA
20A
X2
M7
H5
H6
G4
K5
K3
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RD/BN
5991
YE
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VT/BU
Data Communication Schematics
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7494
WH
5985
VT/YE
2500
BU
2501
WH
P16
Instrument Cluster
A90
Logic
IGN
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419
BN/WH
X225
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46
IGN
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Engine Control Module
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X2
73
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BK/WH
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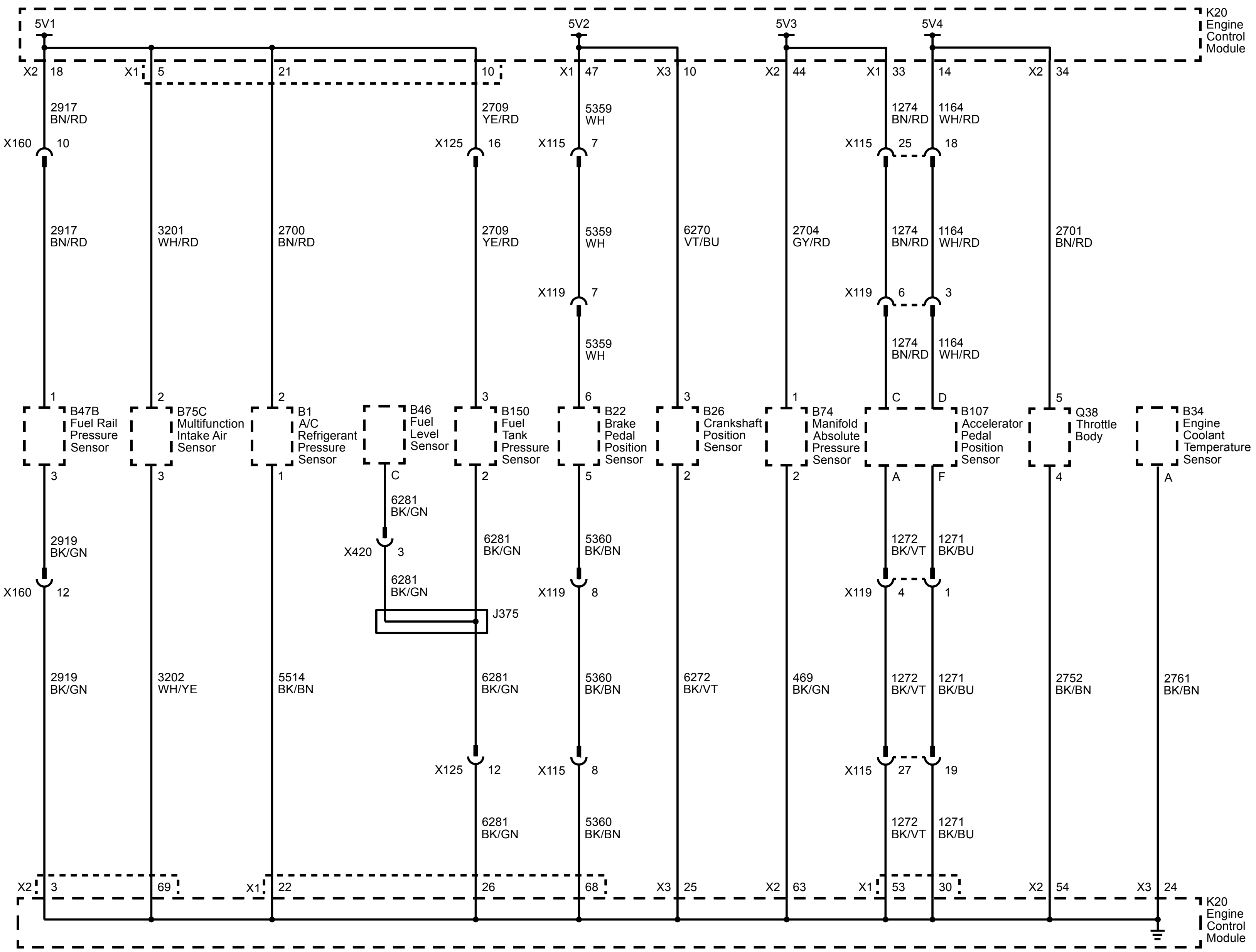
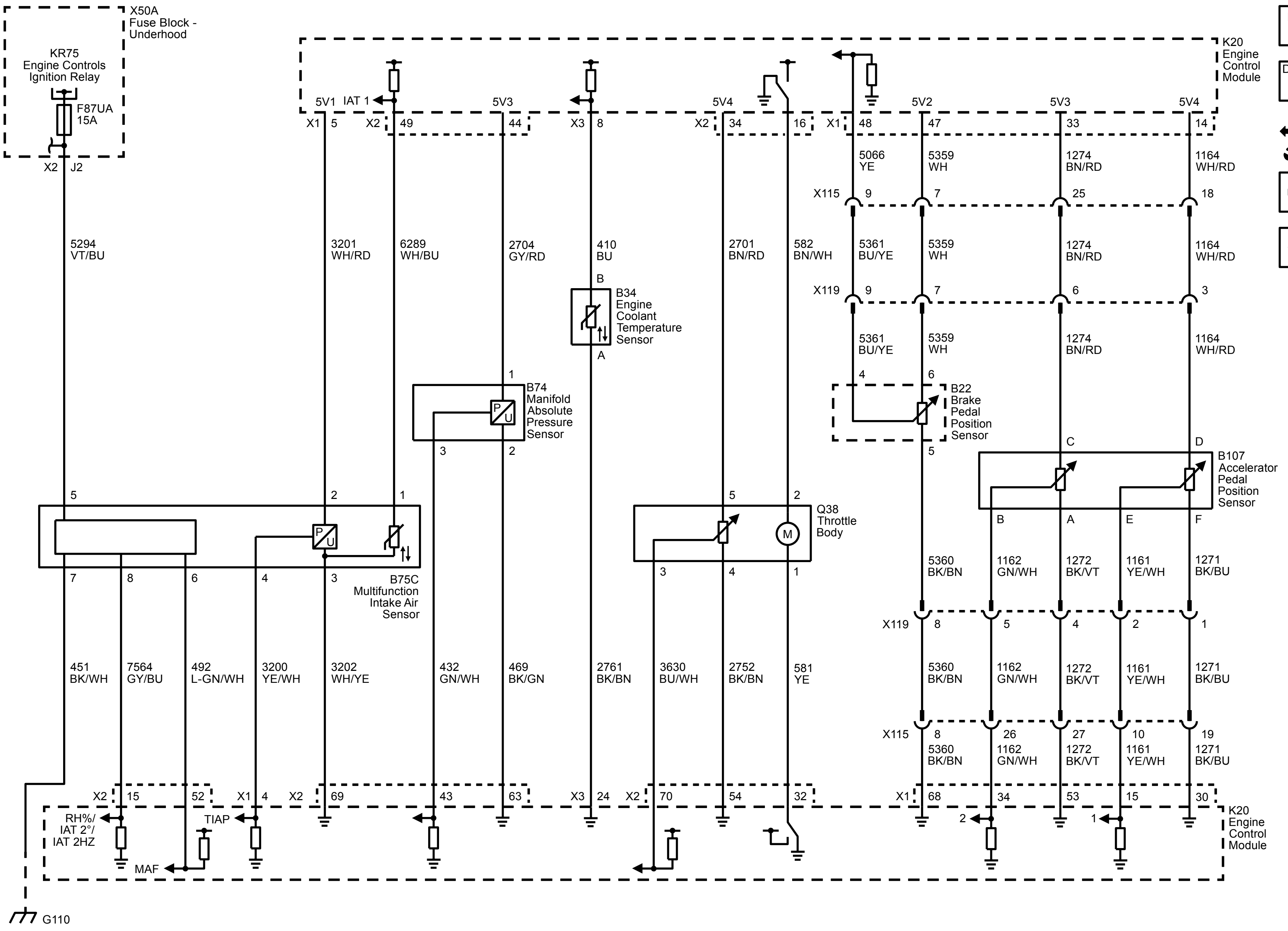
BK/WH
G110

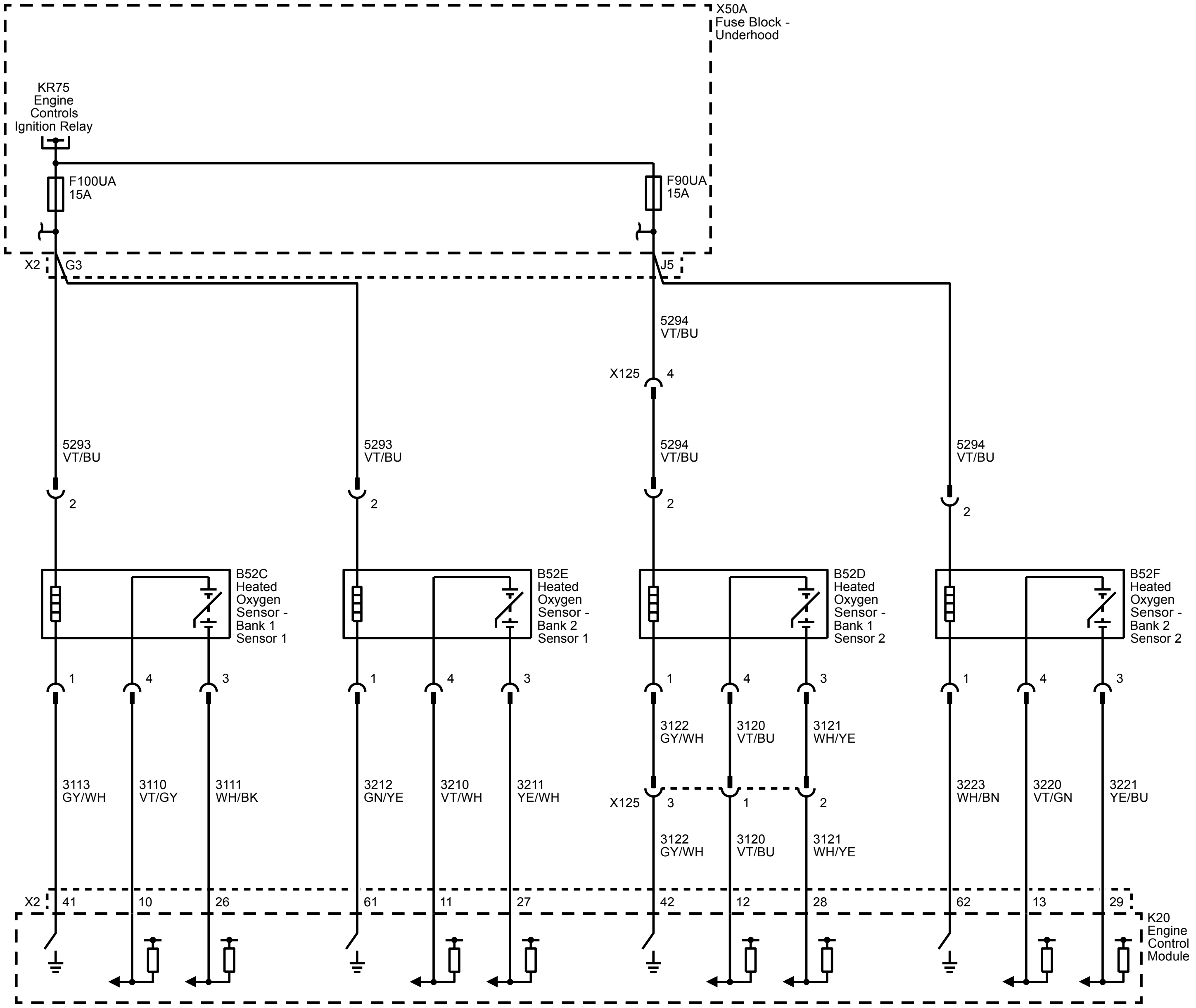
5V and Low Reference Busses


K20 Engine Control Module
5V1
5V2
5V3
5V4
X2 18
X1 5
21
10
X1 47
X3 10
X2 44
X1 33
14
X2 34
2917 BN/RD
2709 YE/RD
5359 WH
1274 BN/RD
1164 WH/RD
X160 10
X125 16
X115 7
X115 25
18
3201 WH/RD
2700 BN/RD
6270 VT/BU
2704 GY/RD
2701 BN/RD
X119 7
X119 6
3
B47B Fuel Rail Pressure Sensor
B75C Multifunction Intake Air Sensor
B1 A/C Refrigerant Pressure Sensor
B46 Fuel Level Sensor
B150 Fuel Tank Pressure Sensor
B22 Brake Pedal Position Sensor
B26 Crankshaft Position Sensor
B74 Manifold Absolute Pressure Sensor
B107 Accelerator Pedal Position Sensor
Q38 Throttle Body
B34 Engine Coolant Temperature Sensor
6281 BK/GN
X420 3
J375
2919 BK/GN
5360 BK/BN
1272 BK/VT
1271 BK/BU
X160 12
X119 8
X119 4
1
3202 WH/YE
5514 BK/BN
6272 BK/VT
469 BK/GN
2752 BK/BN
2761 BK/BN
X125 12
X115 8
X115 27
19
X2 3
69
X1 22
26
68
X3 25
X2 63
X1 53
30
X2 54
X3 24

Engine Data Sensors - Pressure, Temperature and Throttle Controls

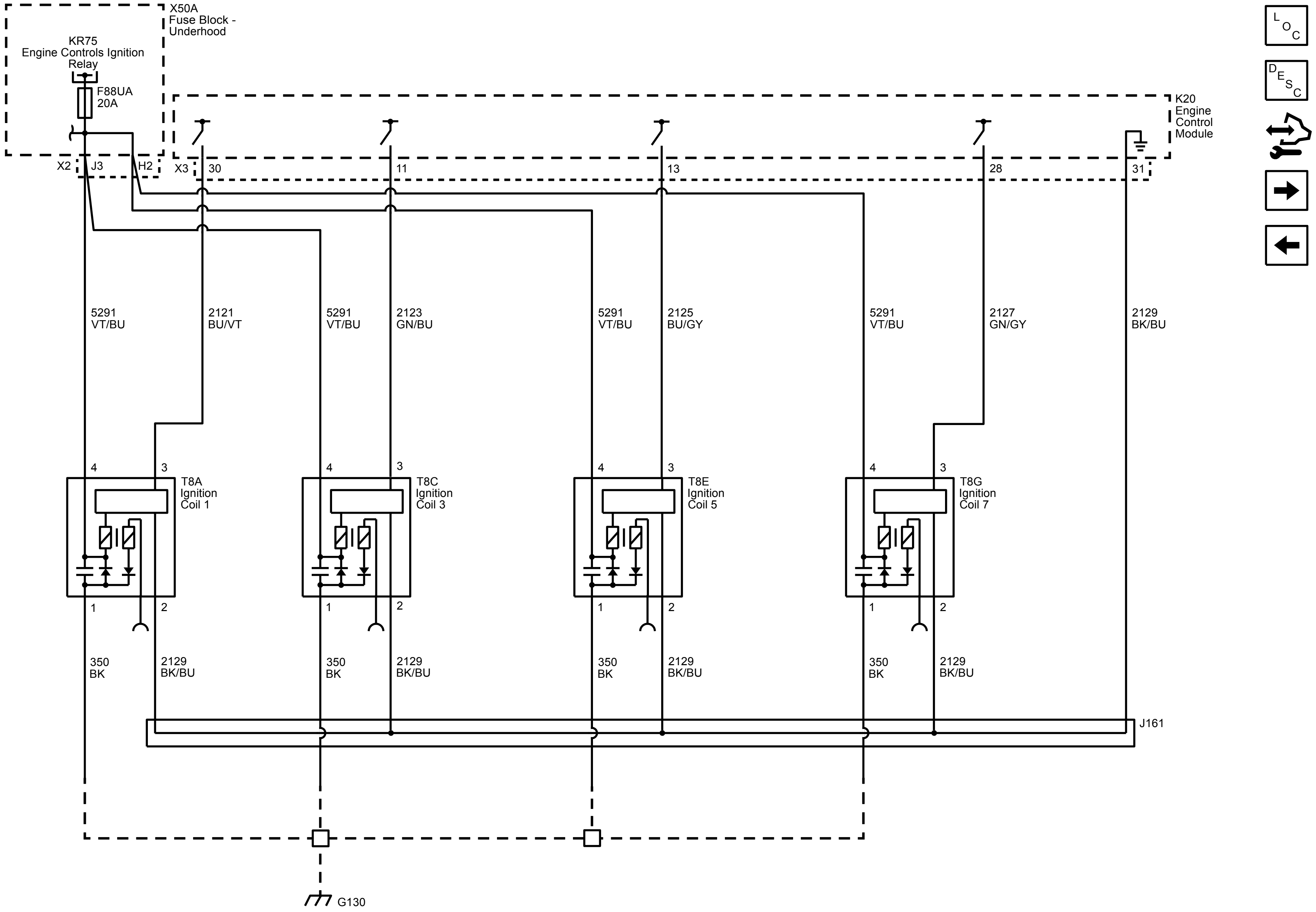

X50A
Fuse Block -
Underhood
KR75
Engine Controls
Ignition Relay
F87UA
15A
X2 J2
5294
VT/BU
K20
Engine
Control
Module
5V1
IAT 1
5V3
5V4
5V2
5V3
5V4
X1 5
X2 49
44
X3 8
X2 34
16
X1 48
47
33
14
5066
YE
5359
WH
1274
BN/RD
1164
WH/RD
X115 9
7
25
18
3201
WH/RD
6289
WH/BU
2704
GY/RD
410
BU
2701
BN/RD
582
BN/WH
5361
BU/YE
5359
WH
1274
BN/RD
1164
WH/RD
B
B34
Engine
Coolant
Temperature
Sensor
A
X119 9
7
6
3
5361
BU/YE
5359
WH
1274
BN/RD
1164
WH/RD
1
B74
Manifold
Absolute
Pressure
Sensor
P
U
3
2
4
6
B22
Brake
Pedal
Position
Sensor
5
C
D
B107
Accelerator
Pedal
Position
Sensor
5
2
1
5
2
Q38
Throttle
Body
M
B
A
E
F
7
8
6
4
3
B75C
Multifunction
Intake Air
Sensor
3
4
1
5360
BK/BN
1162
GN/WH
1272
BK/VT
1161
YE/WH
1271
BK/BU
X119 8
5
4
2
1
451
BK/WH
7564
GY/BU
492
L-GN/WH
3200
YE/WH
3202
WH/YE
432
GN/WH
469
BK/GN
2761
BK/BN
3630
BU/WH
2752
BK/BN
581
YE
5360
BK/BN
1162
GN/WH
1272
BK/VT
1161
YE/WH
1271
BK/BU
X115 8
26
27
10
19
5360
BK/BN
1162
GN/WH
1272
BK/VT
1161
YE/WH
1271
BK/BU
X2 15
52
X1 4
X2 69
43
63
X3 24
X2 70
54
32
X1 68
34
53
15
30
K20
Engine
Control
Module
RH%/
IAT 2°/
IAT 2HZ
TIAP
MAF
2
1
G110

Engine Data Sensors - Oxygen Sensors


X50A
Fuse Block -
Underhood
KR75
Engine
Controls
Ignition Relay
F100UA
15A
F90UA
15A
X2
G3
J5
5294
VT/BU
X125
4
5293
VT/BU
5293
VT/BU
5294
VT/BU
5294
VT/BU
2
2
2
2
B52C
Heated
Oxygen
Sensor -
Bank 1
Sensor 1
B52E
Heated
Oxygen
Sensor -
Bank 2
Sensor 1
B52D
Heated
Oxygen
Sensor -
Bank 1
Sensor 2
B52F
Heated
Oxygen
Sensor -
Bank 2
Sensor 2
1
4
3
1
4
3
1
4
3
1
4
3
3122
GY/WH
3120
VT/BU
3121
WH/YE
3113
GY/WH
3110
VT/GY
3111
WH/BK
3212
GN/YE
3210
VT/WH
3211
YE/WH
X125
3
1
2
3122
GY/WH
3120
VT/BU
3121
WH/YE
3223
WH/BN
3220
VT/GN
3221
YE/BU
X2
41
10
26
61
11
27
42
12
28
62
13
29
K20
Engine
Control
Module

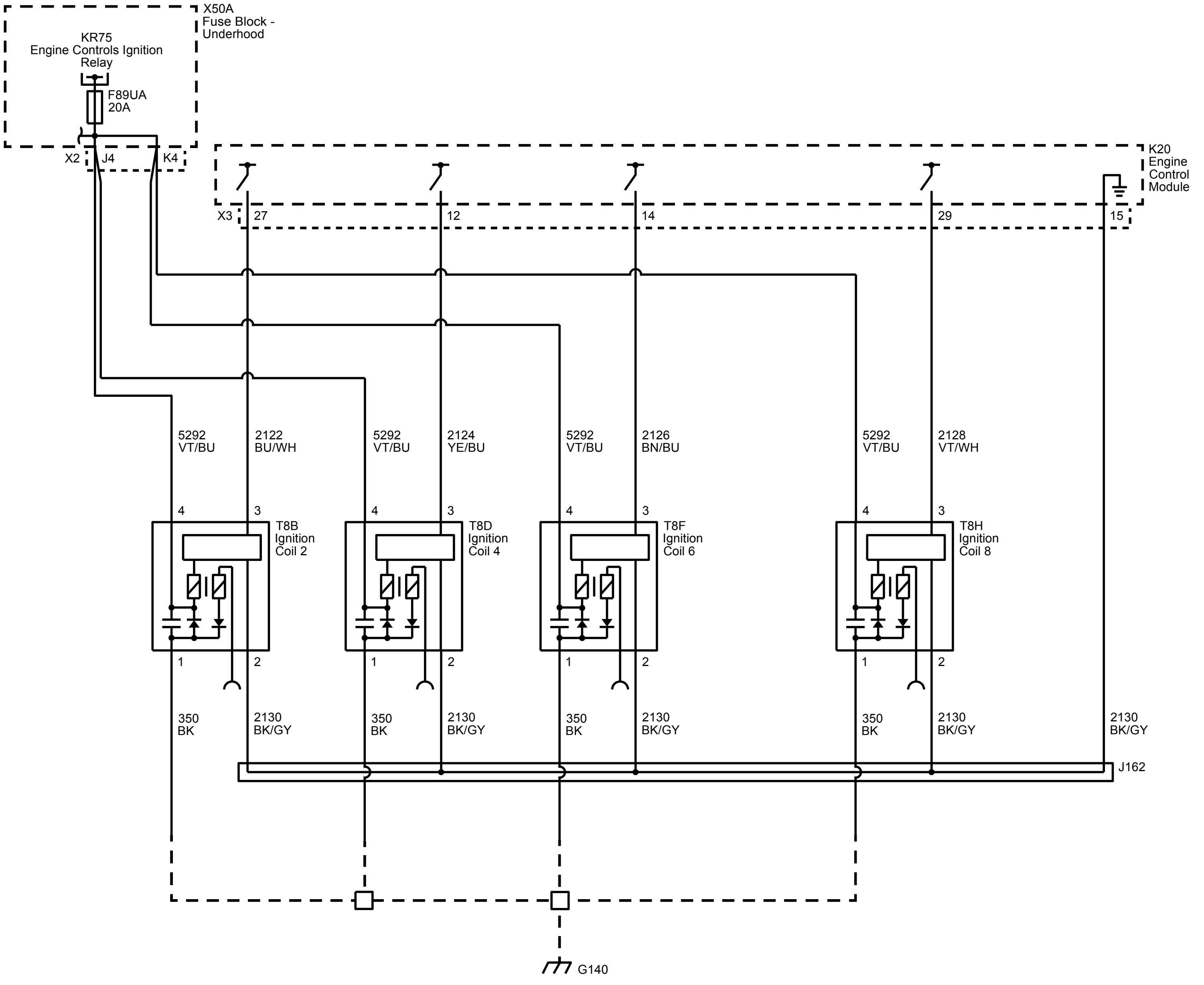
LOC
DESC

Ignition Controls - Ignition Coils Bank 1



X50A
Fuse Block - Underhood
KR75
Engine Controls Ignition Relay
F88UA
20A
X2
J3
H2
X3
30
11
13
28
31
K20
Engine Control Module
5291
VT/BU
2121
BU/VT
5291
VT/BU
2123
GN/BU
5291
VT/BU
2125
BU/GY
5291
VT/BU
2127
GN/GY
2129
BK/BU
4
3
T8A
Ignition Coil 1
4
3
T8C
Ignition Coil 3
4
3
T8E
Ignition Coil 5
4
3
T8G
Ignition Coil 7
1
2
1
2
1
2
1
2
350
BK
2129
BK/BU
350
BK
2129
BK/BU
350
BK
2129
BK/BU
350
BK
2129
BK/BU
J161
G130
LOC
DESC

Ignition Controls - Ignition Coils Bank 2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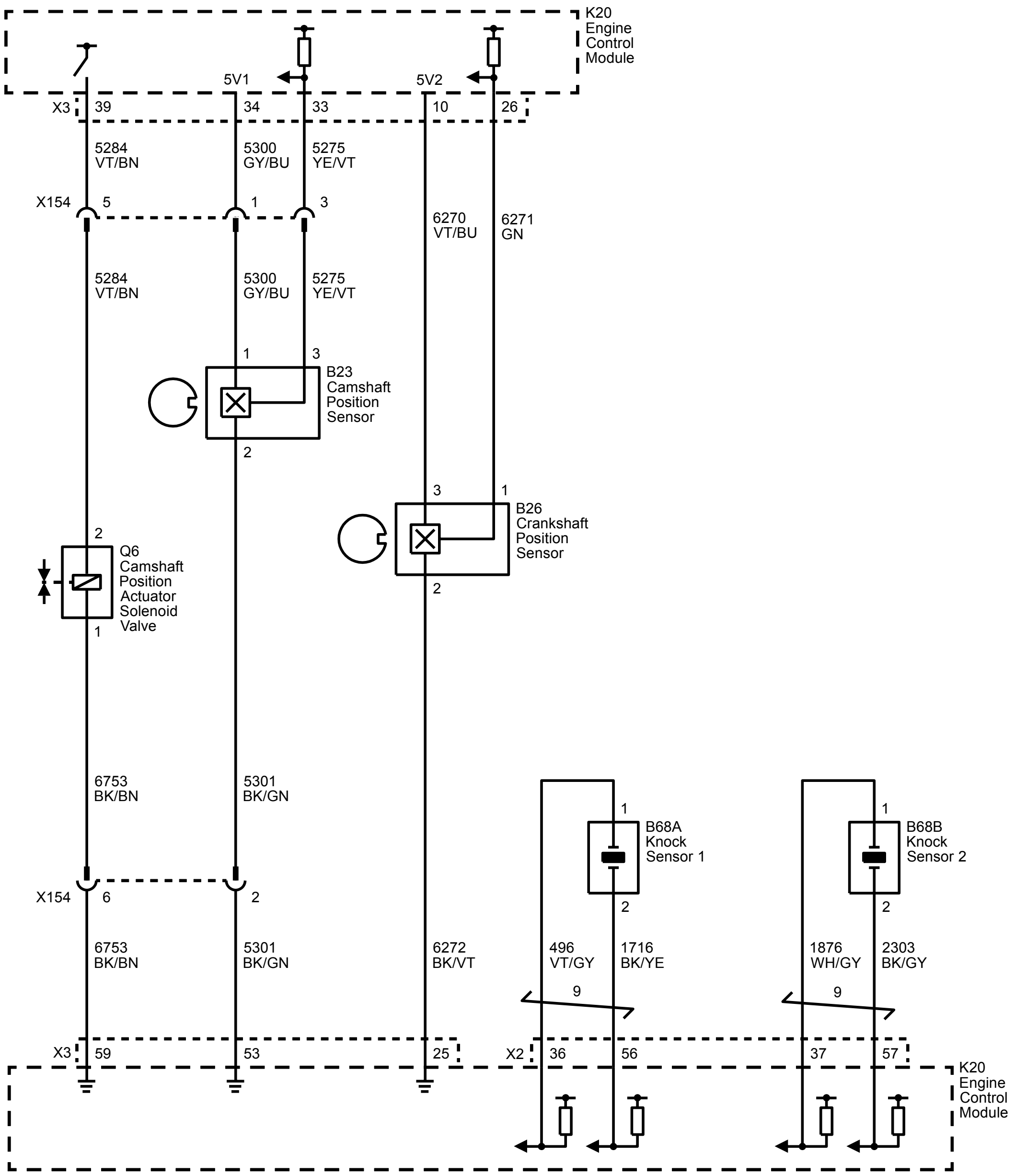
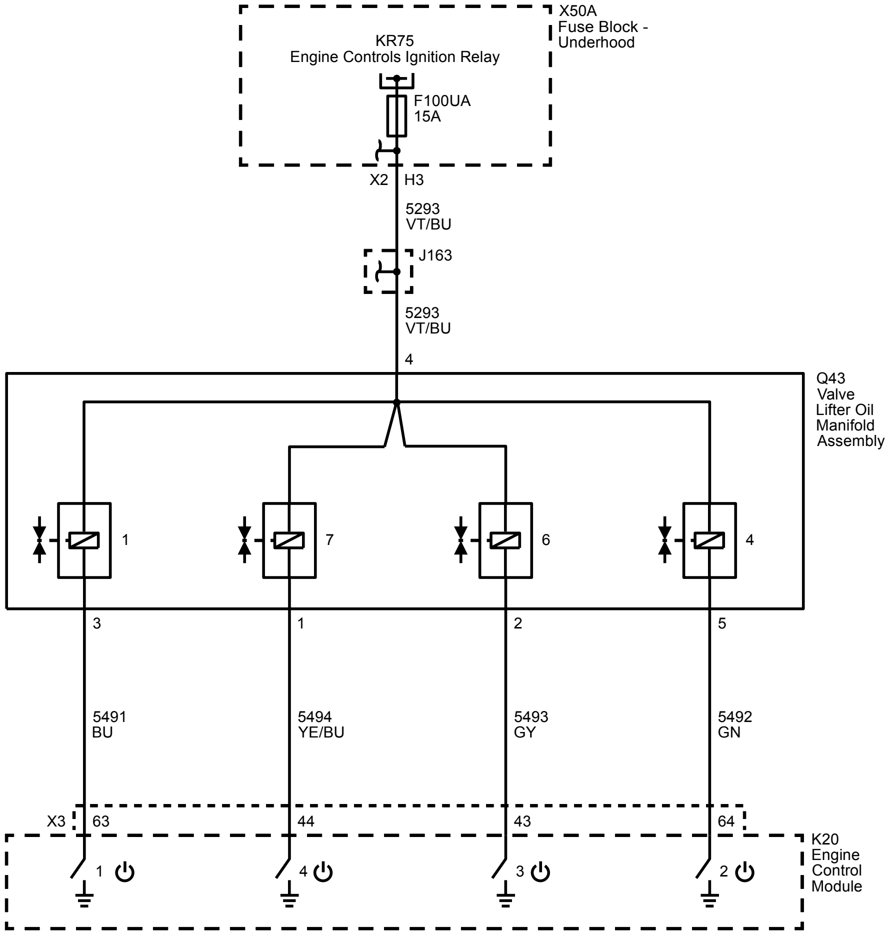
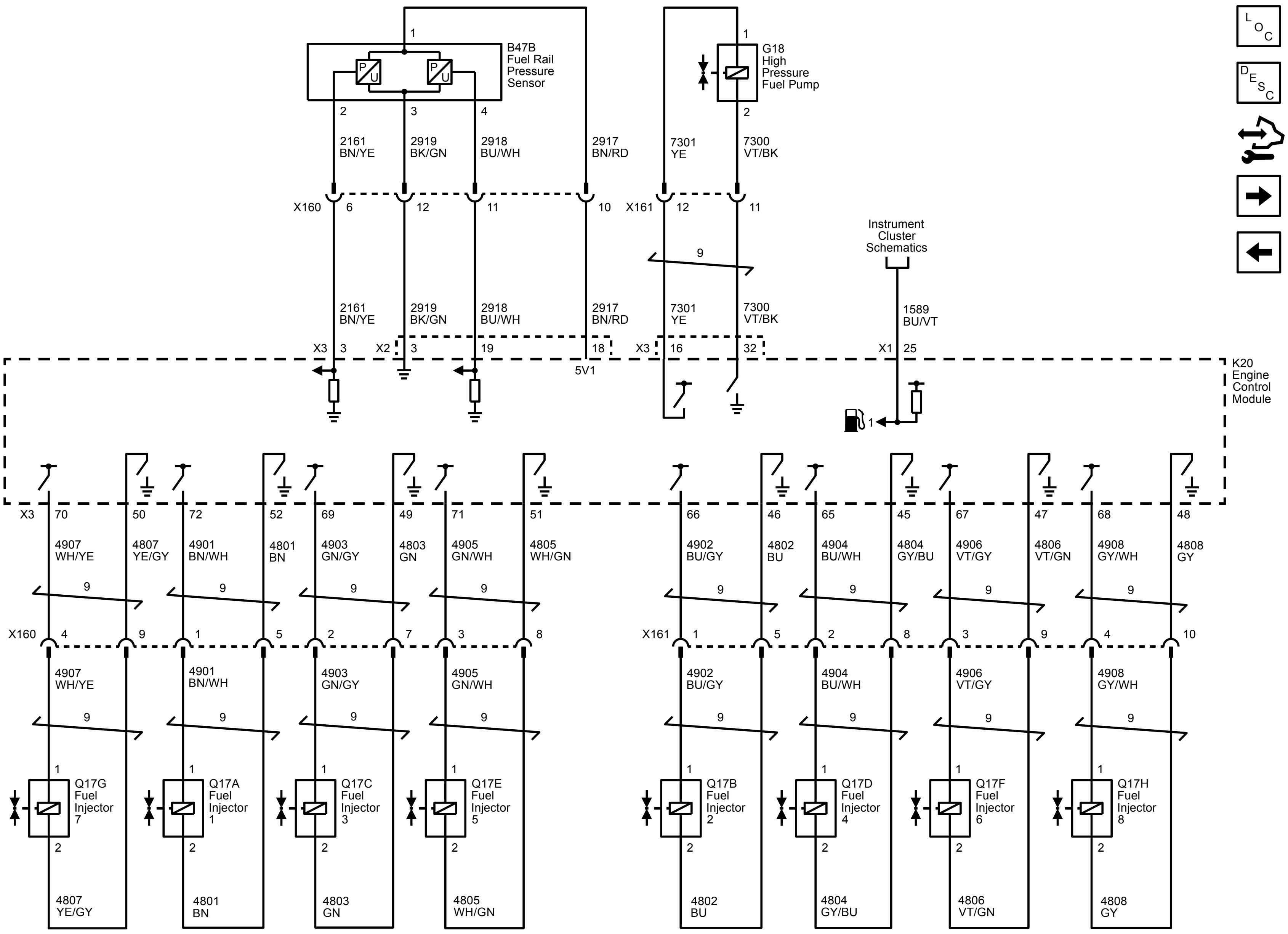
Fuse Block - Underhood
KR75
Engine Controls Ignition Relay
F89UA
20A
X2
J4
K4
K20
Engine Control Module
X3
27
12
14
29
15
5292
VT/BU
2122
BU/WH
5292
VT/BU
2124
YE/BU
5292
VT/BU
2126
BN/BU
5292
VT/BU
2128
VT/WH
4
3
T8B
Ignition Coil 2
4
3
T8D
Ignition Coil 4
4
3
T8F
Ignition Coil 6
4
3
T8H
Ignition Coil 8
1
2
1
2
1
2
1
2
350
BK
2130
BK/GY
350
BK
2130
BK/GY
350
BK
2130
BK/GY
350
BK
2130
BK/GY
2130
BK/GY
J162
G140

Ignition Controls - Crankshaft Position, Camshaft Position and Knock Sensors, and Camshaft Position Actuator Solenoid

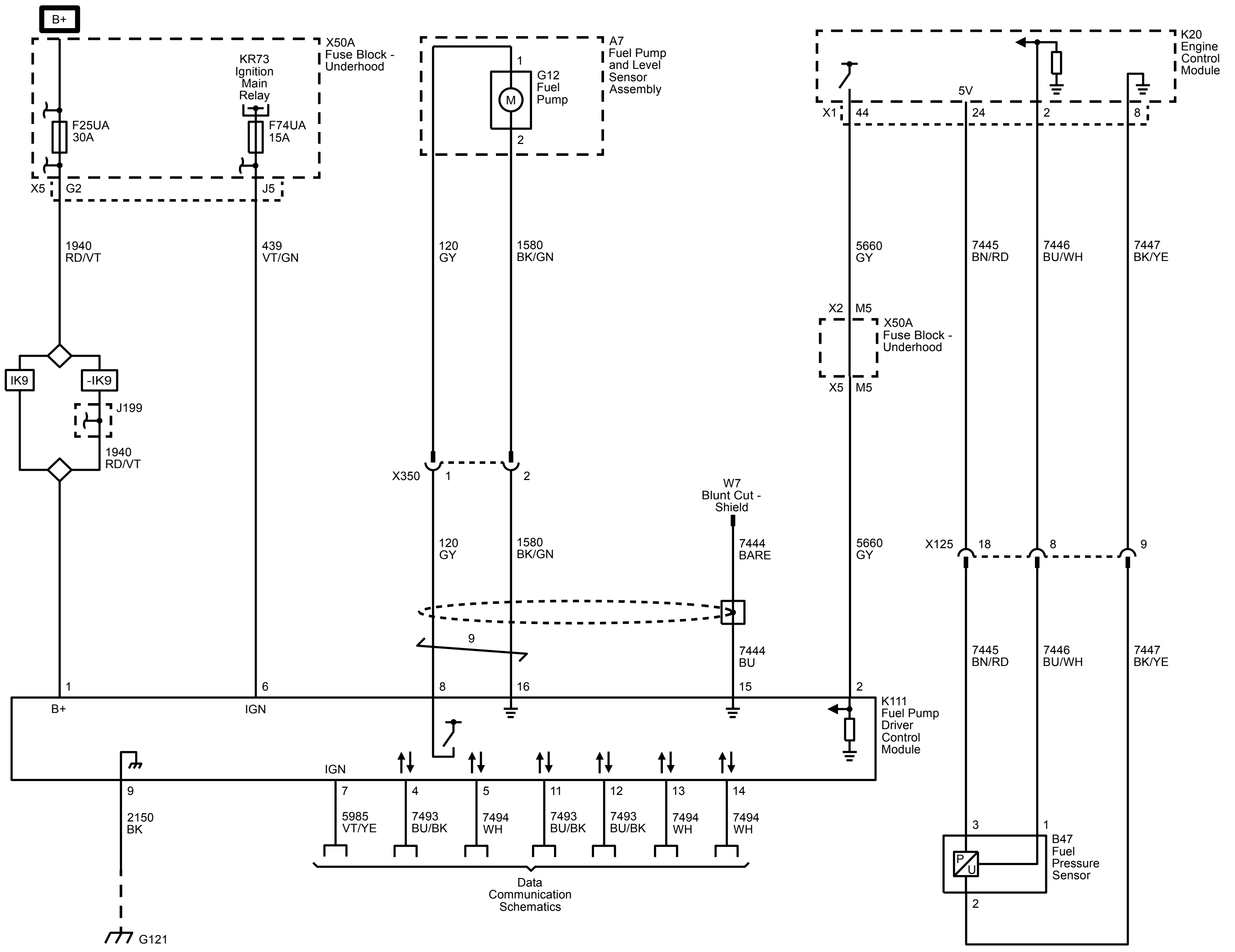

K20
Engine
Control
Module
5V1
5V2
X3
39
34
33
10
26
5284
VT/BN
5300
GY/BU
5275
YE/VT
X154
5
1
3
6270
VT/BU
6271
GN
5284
VT/BN
5300
GY/BU
5275
YE/VT
1
3
B23
Camshaft
Position
Sensor
2
3
1
B26
Crankshaft
Position
Sensor
2
2
Q6
Camshaft
Position
Actuator
Solenoid
Valve
1
6753
BK/BN
5301
BK/GN
1
B68A
Knock
Sensor 1
2
1
B68B
Knock
Sensor 2
2
X154
6
2
6753
BK/BN
5301
BK/GN
6272
BK/VT
496
VT/GY
1716
BK/YE
1876
WH/GY
2303
BK/GY
9
9
X3
59
53
25
X2
36
56
37
57
K20
Engine
Control
Module

Valve Lifter Oil Manifold Assembly

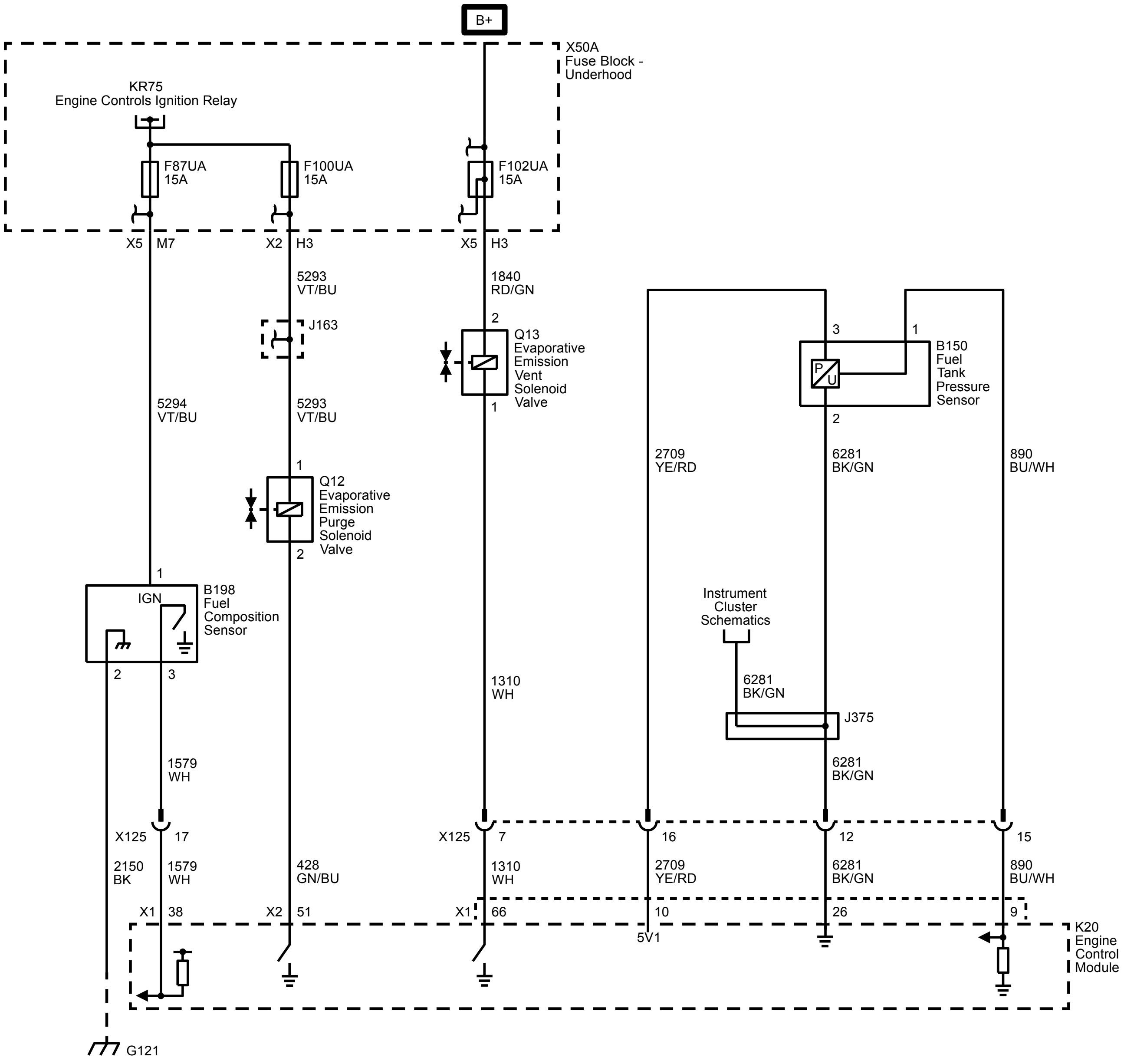

X50A
Fuse Block -
Underhood
KR75
Engine Controls Ignition Relay
F100UA
15A
X2
H3
5293
VT/BU
J163
5293
VT/BU
4
Q43
Valve
Lifter Oil
Manifold
Assembly
1
7
6
4
3
1
2
5
5491
BU
5494
YE/BU
5493
GY
5492
GN
X3
63
44
43
64
K20
Engine
Control
Module
1
4
3
2

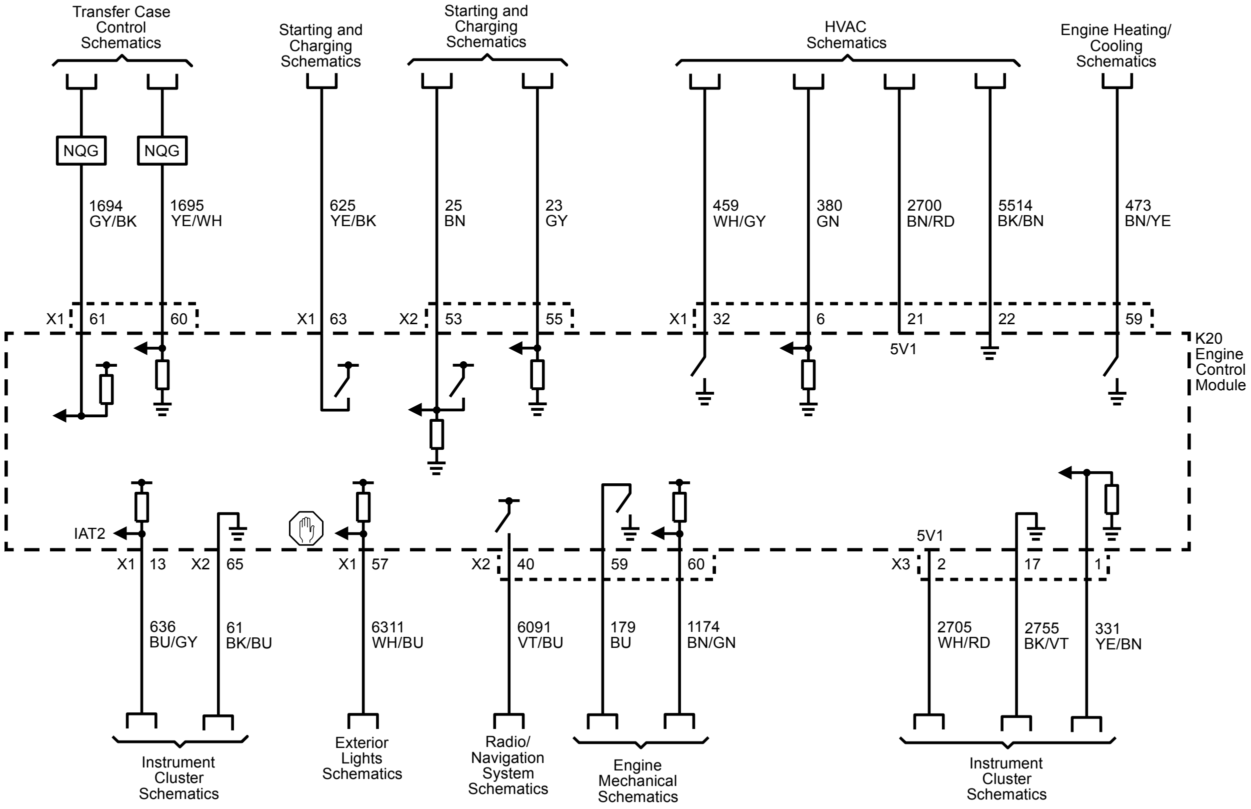

B47B
Fuel Rail
Pressure
Sensor
1
2
3
4
2161
BN/YE
2919
BK/GN
2918
BU/WH
2917
BN/RD
G18
High
Pressure
Fuel Pump
1
2
7301
YE
7300
VT/BK
X160
6
12
11
10
X161
12
11
9
Instrument
Cluster
Schematics
1589
BU/VT
X3
3
X2
3
19
18
5V1
X3
16
32
X1
25
K20
Engine
Control
Module
1
X3
70
50
72
52
69
49
71
51
66
46
65
45
67
47
68
48
4907
WH/YE
4807
YE/GY
4901
BN/WH
4801
BN
4903
GN/GY
4803
GN
4905
GN/WH
4805
WH/GN
4902
BU/GY
4802
BU
4904
BU/WH
4804
GY/BU
4906
VT/GY
4806
VT/GN
4908
GY/WH
4808
GY
9
X160
4
9
1
5
2
7
3
8
X161
1
5
2
8
3
9
4
10
Q17G
Fuel
Injector
7
Q17A
Fuel
Injector
1
Q17C
Fuel
Injector
3
Q17E
Fuel
Injector
5
Q17B
Fuel
Injector
2
Q17D
Fuel
Injector
4
Q17F
Fuel
Injector
6
Q17H
Fuel
Injector
8

Fuel Controls - Fuel Pump Control


B+
X50A
Fuse Block - Underhood
KR73
Ignition
Main
Relay
F25UA
30A
F74UA
15A
X5
G2
J5
1940
RD/VT
439
VT/GN
IK9
-IK9
J199
1940
RD/VT
A7
Fuel Pump and Level Sensor Assembly
G12
Fuel
Pump
M
1
2
120
GY
1580
BK/GN
X350
1
2
120
GY
1580
BK/GN
W7
Blunt Cut - Shield
7444
BARE
9
7444
BU
K20
Engine
Control
Module
5V
X1
44
24
2
8
5660
GY
7445
BN/RD
7446
BU/WH
7447
BK/YE
X2
M5
X50A
Fuse Block - Underhood
X5
M5
5660
GY
X125
18
8
9
7445
BN/RD
7446
BU/WH
7447
BK/YE
1
6
8
16
15
2
B+
IGN
K111
Fuel Pump
Driver
Control
Module
IGN
9
7
4
5
11
12
13
14
2150
BK
5985
VT/YE
7493
BU/BK
7494
WH
7493
BU/BK
7493
BU/BK
7494
WH
7494
WH
Data
Communication
Schematics
G121
3
1
B47
Fuel
Pressure
Sensor
P
U
2

Fuel Controls - Evaporative Emissions Controls


B+
X50A
Fuse Block - Underhood
KR75
Engine Controls Ignition Relay
F87UA
15A
F100UA
15A
F102UA
15A
X5
M7
X2
H3
X5
H3
5293
VT/BU
1840
RD/GN
J163
2
Q13
Evaporative Emission Vent Solenoid Valve
1
5294
VT/BU
5293
VT/BU
3
1
B150
Fuel Tank Pressure Sensor
P
U
2
2709
YE/RD
6281
BK/GN
890
BU/WH
1
Q12
Evaporative Emission Purge Solenoid Valve
2
1
IGN
B198
Fuel Composition Sensor
2
3
Instrument Cluster Schematics
6281
BK/GN
J375
1310
WH
1579
WH
6281
BK/GN
X125
17
X125
7
16
12
15
2150
BK
1579
WH
428
GN/BU
1310
WH
2709
YE/RD
6281
BK/GN
890
BU/WH
X1
38
X2
51
X1
66
10
26
9
5V1
K20
Engine Control Module
G121


Transfer Case Control Schematics
Starting and Charging Schematics
Starting and Charging Schematics
HVAC Schematics
Engine Heating/ Cooling Schematics
NQG
NQG
1694 GY/BK
1695 YE/WH
625 YE/BK
25 BN
23 GY
459 WH/GY
380 GN
2700 BN/RD
5514 BK/BN
473 BN/YE
X1 61
60
X1 63
X2 53
55
X1 32
6
21
22
59
5V1
K20 Engine Control Module
IAT2
X1 13
X2 65
X1 57
X2 40
59
60
5V1
X3 2
17
1
636 BU/GY
61 BK/BU
6311 WH/BU
6091 VT/BU
179 BU
1174 BN/GN
2705 WH/RD
2755 BK/VT
331 YE/BN
Instrument Cluster Schematics
Exterior Lights Schematics
Radio/ Navigation System Schematics
Engine Mechanical Schematics
Instrument Cluster Schematics

Description and Operation

Fast Idle System Description

Fast Idle

Fast Idle (UF3) is available on heavy duty engines equipped with cruise control. The purpose of fast idle is to increase engine idle speed. The system is controlled through the steering wheel mounted cruise control switches. Upon activation a signal is sent through the body control module (BCM) to the engine control module (ECM) commanding an increase in engine speed.

The instrument panel will indicate the fast idle system is active by displaying a message across the driver information center (DIC).

Fast Idle Enable and Disable

To enable the fast idle system, perform the following procedure:

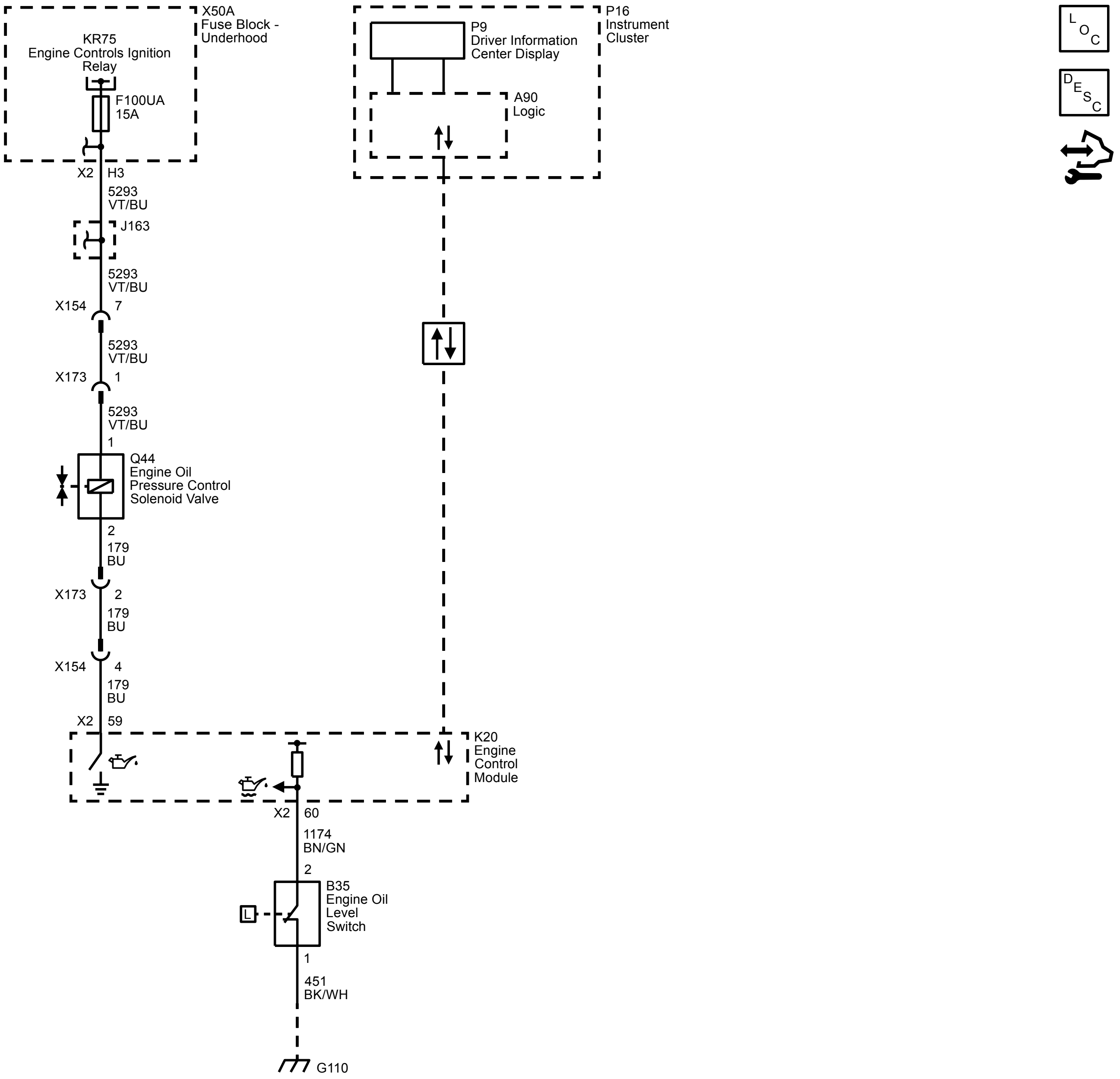
1. Engine running.
2. Park brake set.
3. Transmission shifter in P (park) or N (neutral).
4. Press and release the cruise control ON/OFF button.
5. Press and release the cruise control SET button.

When the procedure is followed the engine idle speed will increase to approximately 1,200 RPM.

The manual fast idle system will be disabled if any of the following procedures are performed:

- Brake applied
- Cruise control CANCEL, ON/OFF, or SET buttons depressed
- Park brake released
- Accelerator pedal depressed more than 25%
- Clutch applied
- Ignition switch turned to the LOCK/OFF position

Engine Oil Level and Pressure Control


X50A
Fuse Block - Underhood
KR75
Engine Controls Ignition Relay
F100UA
15A
X2
H3
5293
VT/BU
J163
5293
VT/BU
X154
7
5293
VT/BU
X173
1
5293
VT/BU
1
Q44
Engine Oil Pressure Control Solenoid Valve
2
179
BU
X173
2
179
BU
X154
4
179
BU
X2
59
P16
Instrument Cluster
P9
Driver Information Center Display
A90
Logic
K20
Engine Control Module
X2
60
1174
BN/GN
2
B35
Engine Oil Level Switch
L
1
451
BK/WH
G110
LOC
DESC

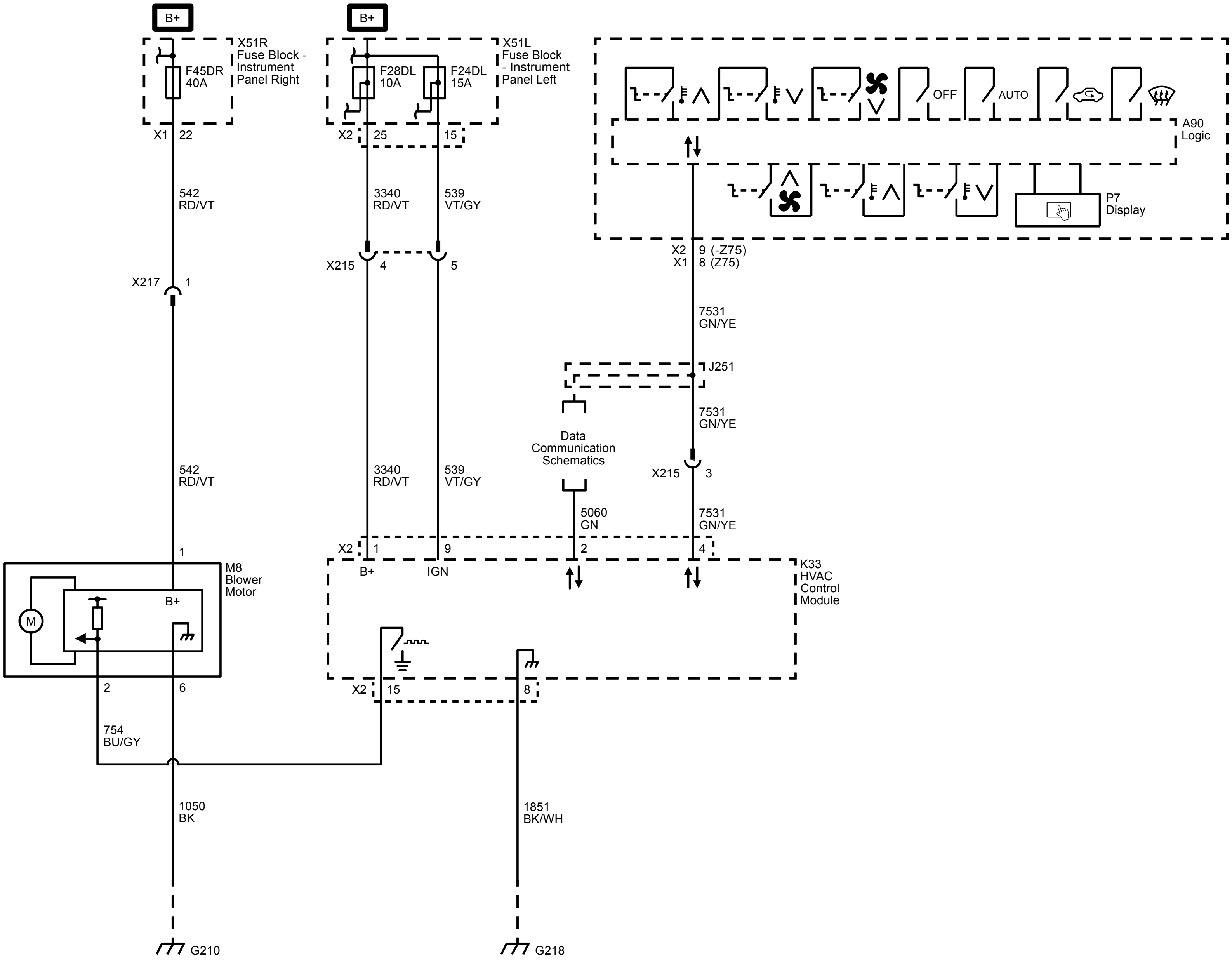
HVAC

HVAC - Automatic

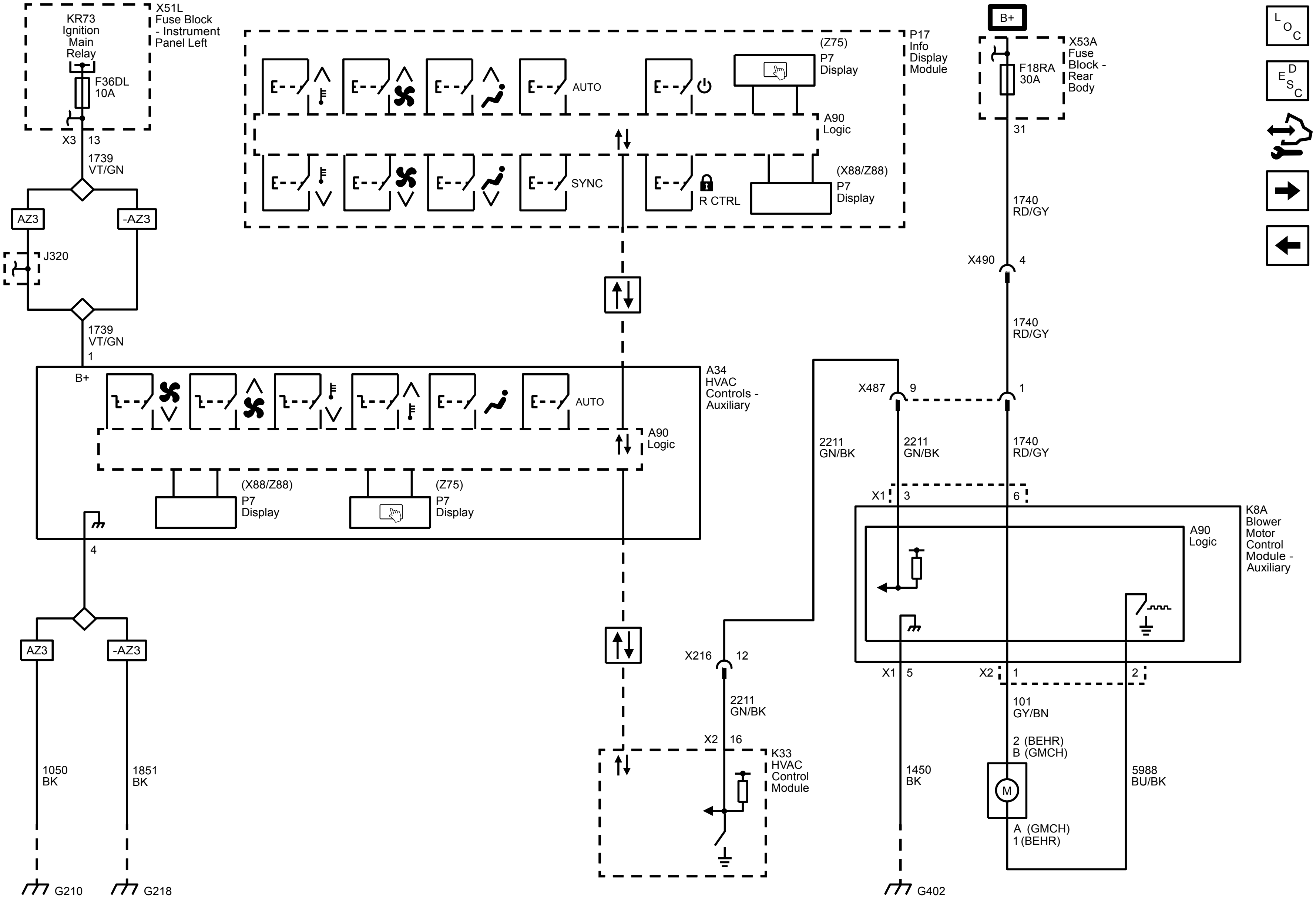
Schematic and Routing Diagrams

HVAC Schematics

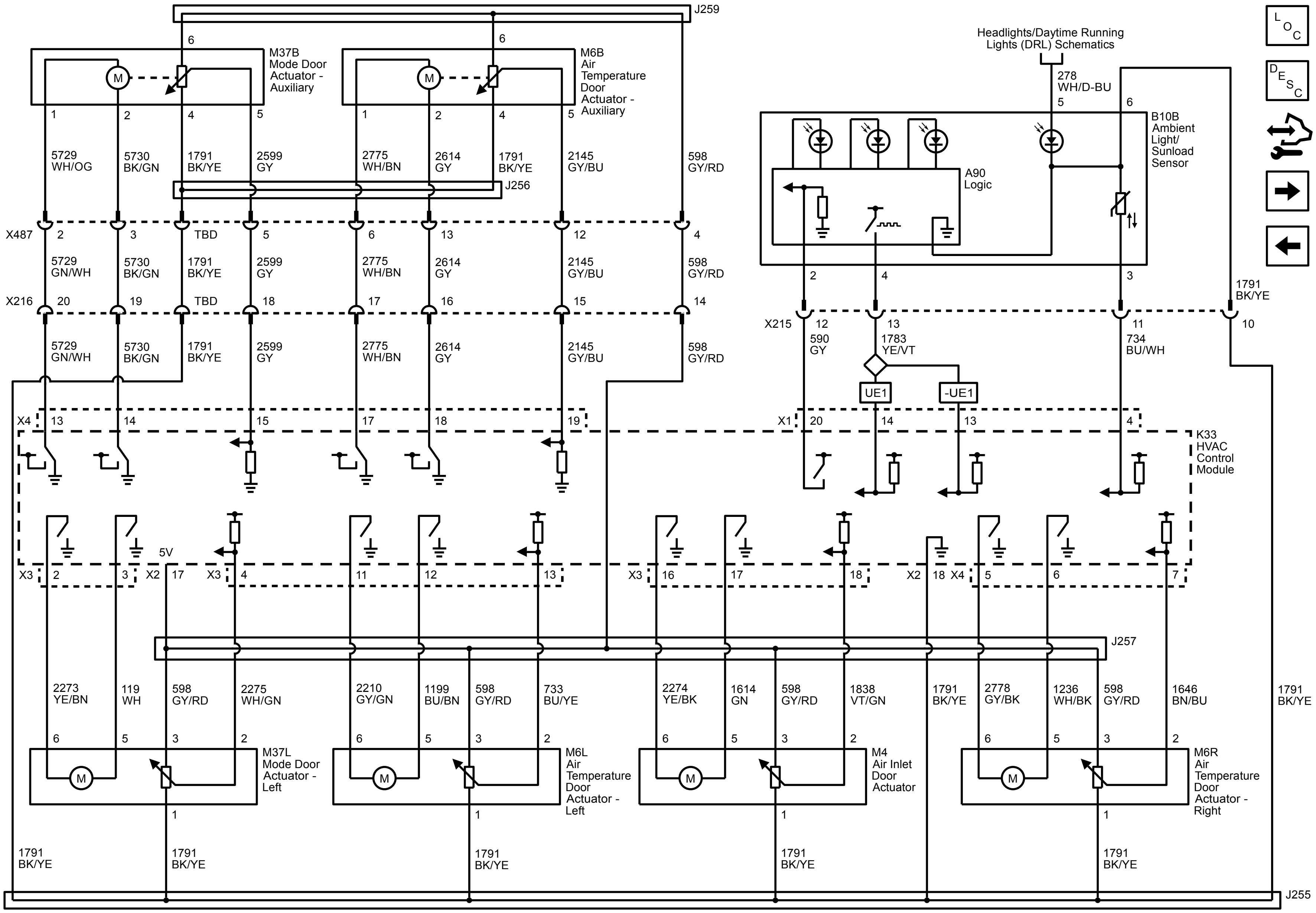
Power, Ground, Serial Data and Front Blower Controls

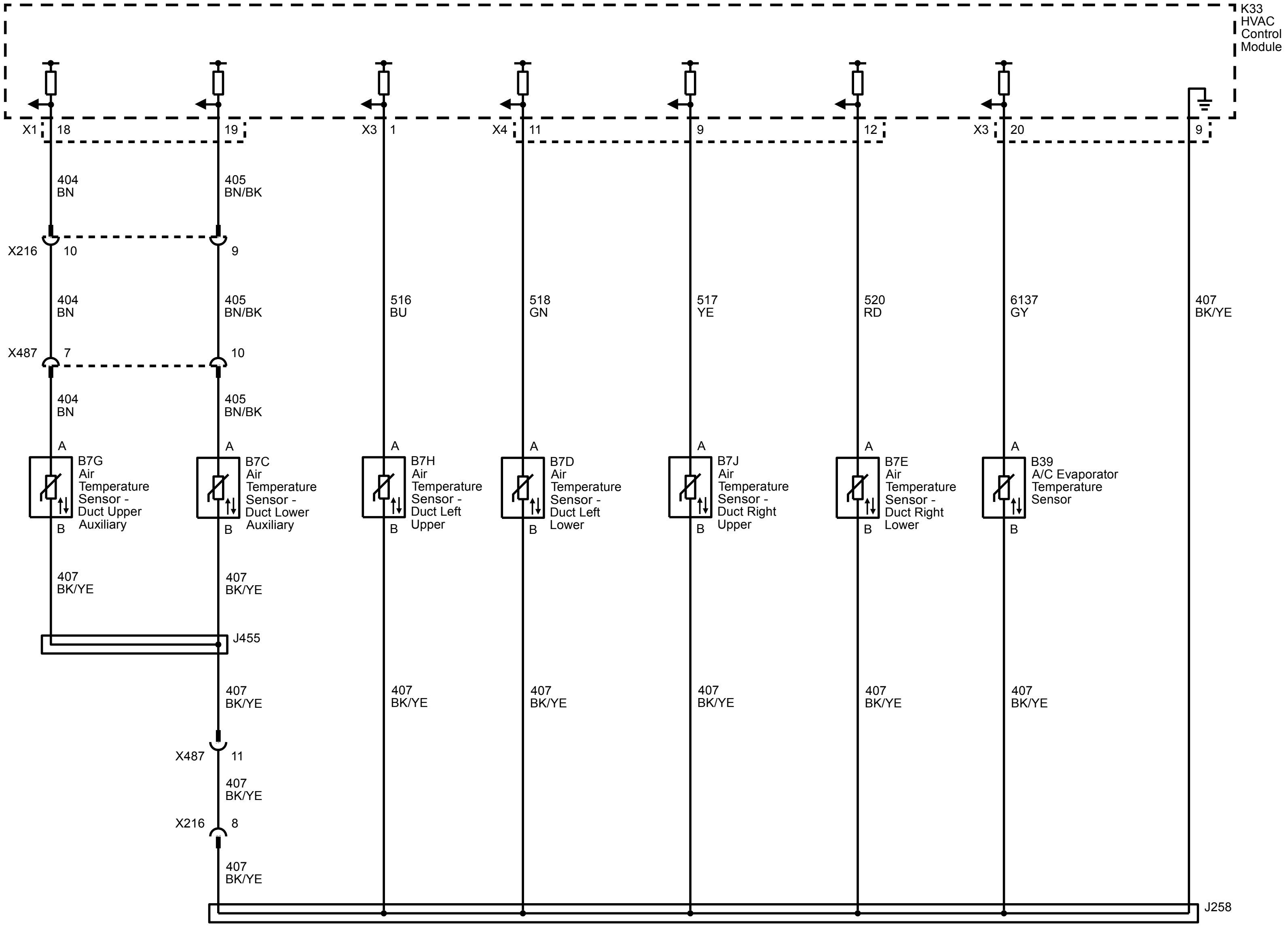

B+
X51R
Fuse Block - Instrument Panel Right
F45DR
40A
X1
22
542
RD/VT
X217
1
542
RD/VT
1
M8
Blower
Motor
M
B+
2
6
754
BU/GY
1050
BK
G210
B+
X51L
Fuse Block - Instrument Panel Left
F28DL
10A
F24DL
15A
X2
25
15
3340
RD/VT
539
VT/GY
X215
4
5
3340
RD/VT
539
VT/GY
X2
1
9
B+
IGN
2
4
K33
HVAC
Control
Module
X2
15
8
1851
BK/WH
G218
P17
Info
Display
Module
OFF
AUTO
A90
Logic
P7
Display
X2
X1
9 (-Z75)
8 (Z75)
7531
GN/YE
J251
7531
GN/YE
Data
Communication
Schematics
X215
3
5060
GN
7531
GN/YE

Auxiliary Blower Controls

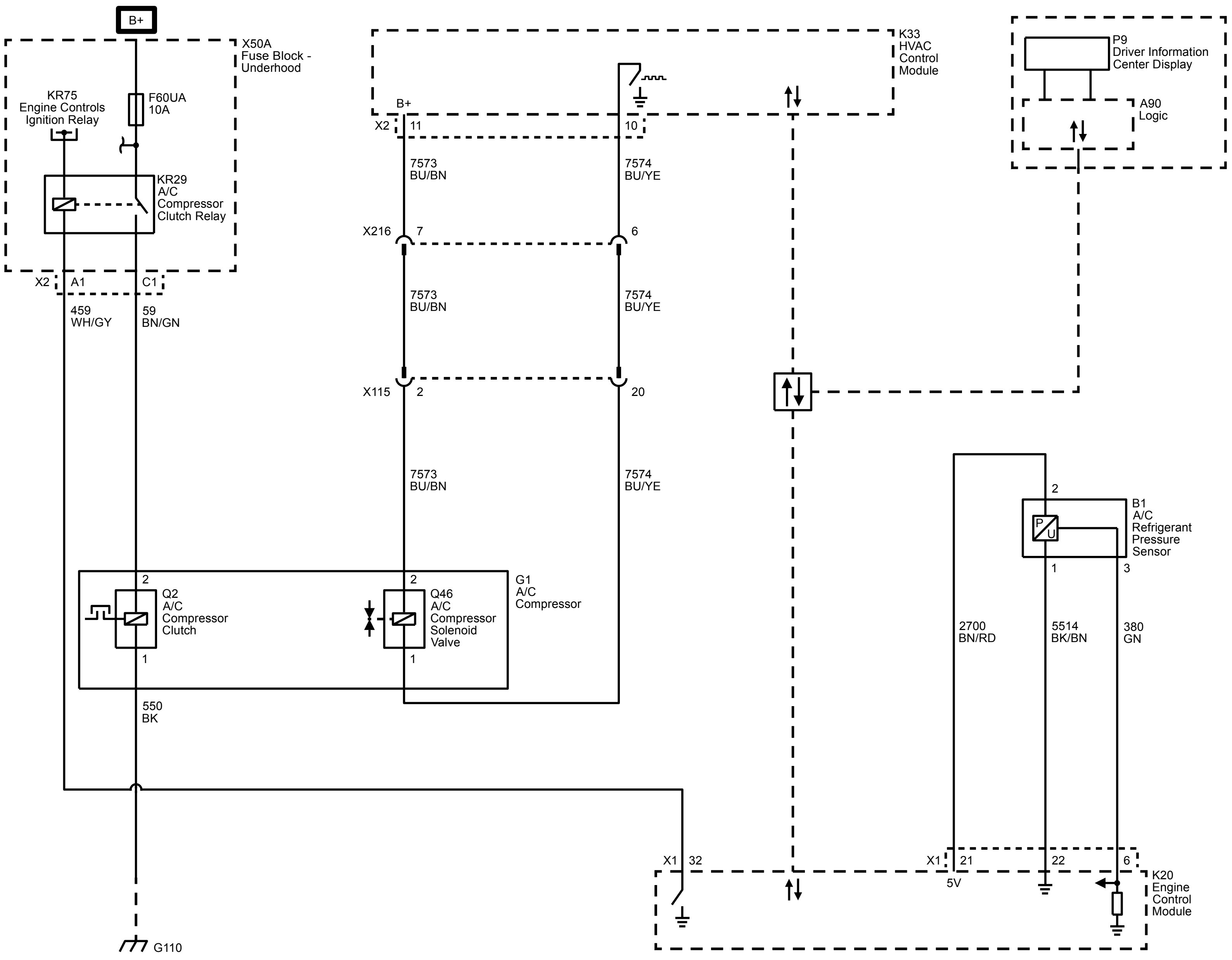

KR73 Ignition Main Relay
X51L Fuse Block - Instrument Panel Left
F36DL 10A
X3
13
1739 VT/GN
AZ3
-AZ3
J320
1739 VT/GN
1
B+
(Z75) P7 Display
P17 Info Display Module
AUTO
A90 Logic
SYNC
R CTRL
(X88/Z88) P7 Display
B+
X53A Fuse Block - Rear Body
F18RA 30A
31
1740 RD/GY
X490
4
1740 RD/GY
X487
9
1
A34 HVAC Controls - Auxiliary
AUTO
A90 Logic
(X88/Z88) P7 Display
(Z75) P7 Display
4
AZ3
-AZ3
1050 BK
1851 BK
G210
G218
2211 GN/BK
2211 GN/BK
1740 RD/GY
X1
3
6
K8A Blower Motor Control Module - Auxiliary
A90 Logic
X216
12
2211 GN/BK
X2
16
K33 HVAC Control Module
X1
5
X2
1
2
101 GY/BN
2 (BEHR)
B (GMCH)
M
A (GMCH)
1 (BEHR)
1450 BK
5988 BU/BK
G402
L O C
D E S C

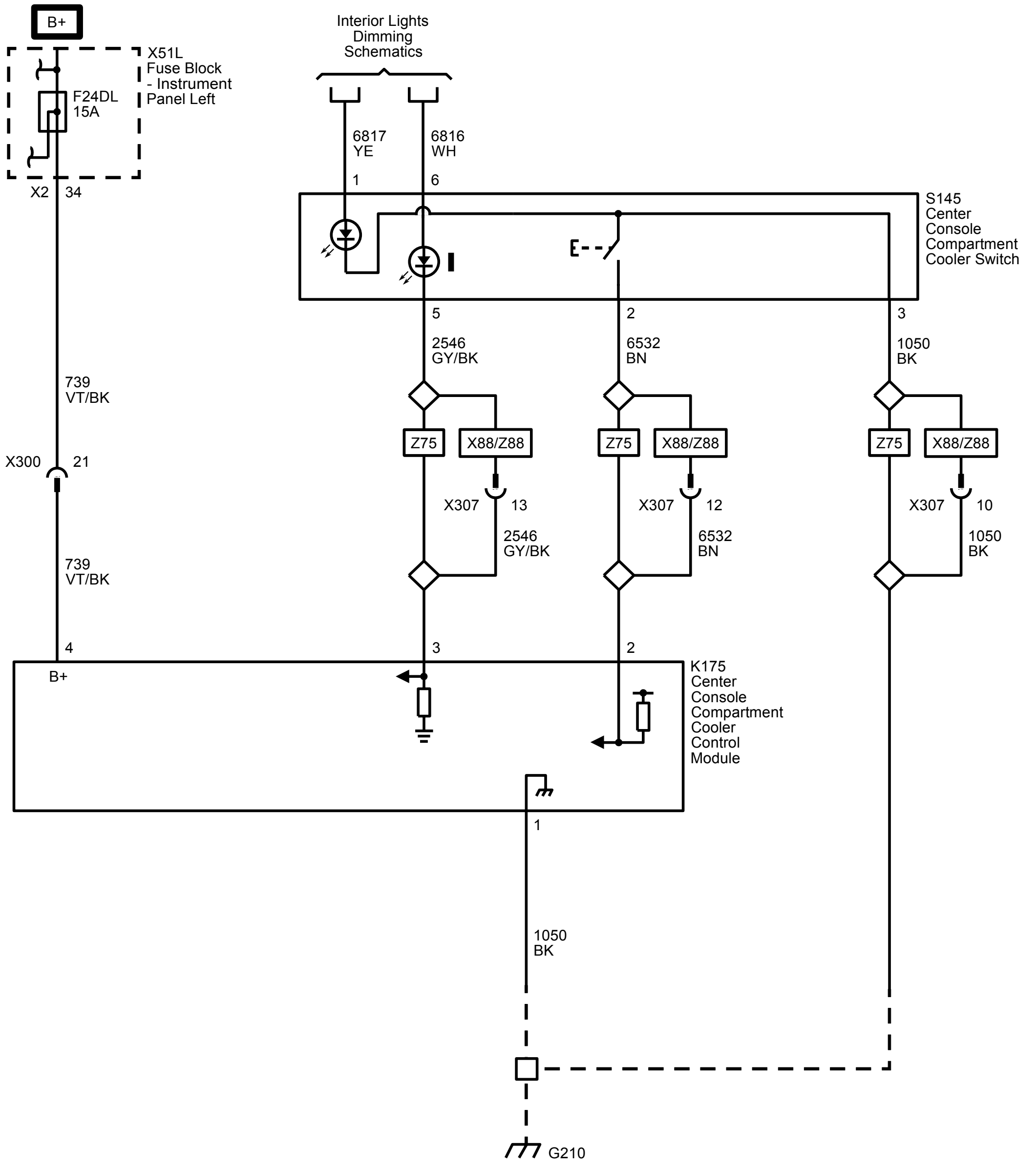
Ambient Light/Sunload Sensor and Mode Doors

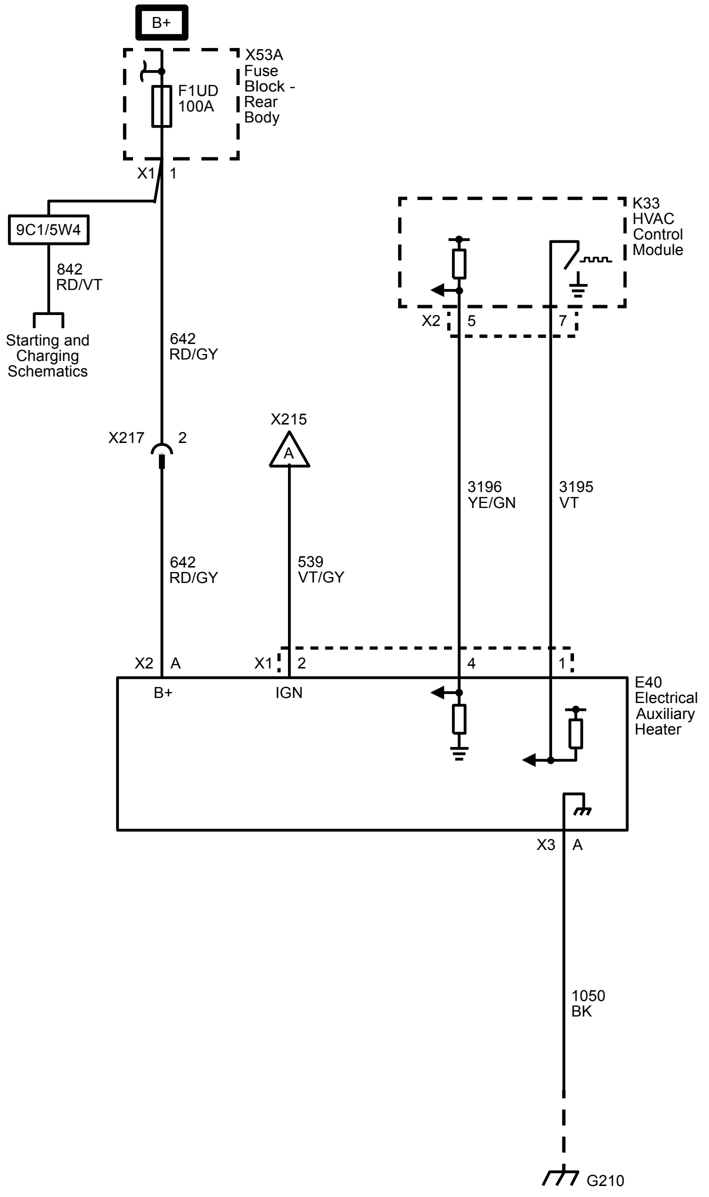

J259
M37B Mode Door Actuator - Auxiliary
M6B Air Temperature Door Actuator - Auxiliary
Headlights/Daytime Running Lights (DRL) Schematics
278 WH/D-BU
B10B Ambient Light/ Sunload Sensor
A90 Logic
5729 WH/OG
5730 BK/GN
1791 BK/YE
2599 GY
2775 WH/BN
2614 GY
2145 GY/BU
598 GY/RD
J256
X487
TBD
5729 GN/WH
X216
X215
590 GY
1783 YE/VT
734 BU/WH
UE1
-UE1
X4
X1
K33 HVAC Control Module
5V
X3
X2
J257
2273 YE/BN
119 WH
2275 WH/GN
2210 GY/GN
1199 BU/BN
733 BU/YE
2274 YE/BK
1614 GN
1838 VT/GN
2778 GY/BK
1236 WH/BK
1646 BN/BU
M37L Mode Door Actuator - Left
M6L Air Temperature Door Actuator - Left
M4 Air Inlet Door Actuator
M6R Air Temperature Door Actuator - Right
M
J255


K33
HVAC
Control
Module
X1
18
19
X3
1
X4
11
9
12
X3
20
9
404
BN
405
BN/BK
X216
10
9
404
BN
405
BN/BK
516
BU
518
GN
517
YE
520
RD
6137
GY
407
BK/YE
X487
7
10
404
BN
405
BN/BK
A
B7G
Air
Temperature
Sensor -
Duct Upper
Auxiliary
B
A
B7C
Air
Temperature
Sensor -
Duct Lower
Auxiliary
B
A
B7H
Air
Temperature
Sensor -
Duct Left
Upper
B
A
B7D
Air
Temperature
Sensor -
Duct Left
Lower
B
A
B7J
Air
Temperature
Sensor -
Duct Right
Upper
B
A
B7E
Air
Temperature
Sensor -
Duct Right
Lower
B
A
B39
A/C Evaporator
Temperature
Sensor
B
407
BK/YE
407
BK/YE
J455
407
BK/YE
407
BK/YE
407
BK/YE
407
BK/YE
407
BK/YE
407
BK/YE
X487
11
407
BK/YE
X216
8
407
BK/YE
J258

A/C Compressor Controls


B+
X50A
Fuse Block -
Underhood
KR75
Engine Controls
Ignition Relay
F60UA
10A
KR29
A/C
Compressor
Clutch Relay
X2
A1
C1
459
WH/GY
59
BN/GN
K33
HVAC
Control
Module
B+
X2
11
10
7573
BU/BN
7574
BU/YE
X216
7
6
7573
BU/BN
7574
BU/YE
X115
2
20
7573
BU/BN
7574
BU/YE
P16
Instrument
Cluster
P9
Driver Information
Center Display
A90
Logic
2
Q2
A/C
Compressor
Clutch
1
2
Q46
A/C
Compressor
Solenoid
Valve
1
G1
A/C
Compressor
550
BK
G110
2
B1
A/C
Refrigerant
Pressure
Sensor
P
U
1
3
2700
BN/RD
5514
BK/BN
380
GN
X1
32
X1
21
22
6
5V
K20
Engine
Control
Module


B+
X51L
Fuse Block
- Instrument
Panel Left
F24DL
15A
X2
34
Interior Lights
Dimming
Schematics
6817
YE
6816
WH
1
6
S145
Center
Console
Compartment
Cooler Switch
5
2
3
2546
GY/BK
6532
BN
1050
BK
739
VT/BK
X300
21
Z75
X88/Z88
X307
13
12
10
739
VT/BK
2546
GY/BK
6532
BN
1050
BK
4
3
2
B+
K175
Center
Console
Compartment
Cooler
Control
Module
1
1050
BK
G210


B+
X53A
Fuse
Block -
Rear
Body
F1UD
100A
X1
1
9C1/5W4
842
RD/VT
Starting and
Charging
Schematics
642
RD/GY
X217
2
642
RD/GY
X215
A
539
VT/GY
K33
HVAC
Control
Module
X2
5
7
3196
YE/GN
3195
VT
X2
A
X1
2
4
1
B+
IGN
E40
Electrical
Auxiliary
Heater
X3
A
1050
BK
G210

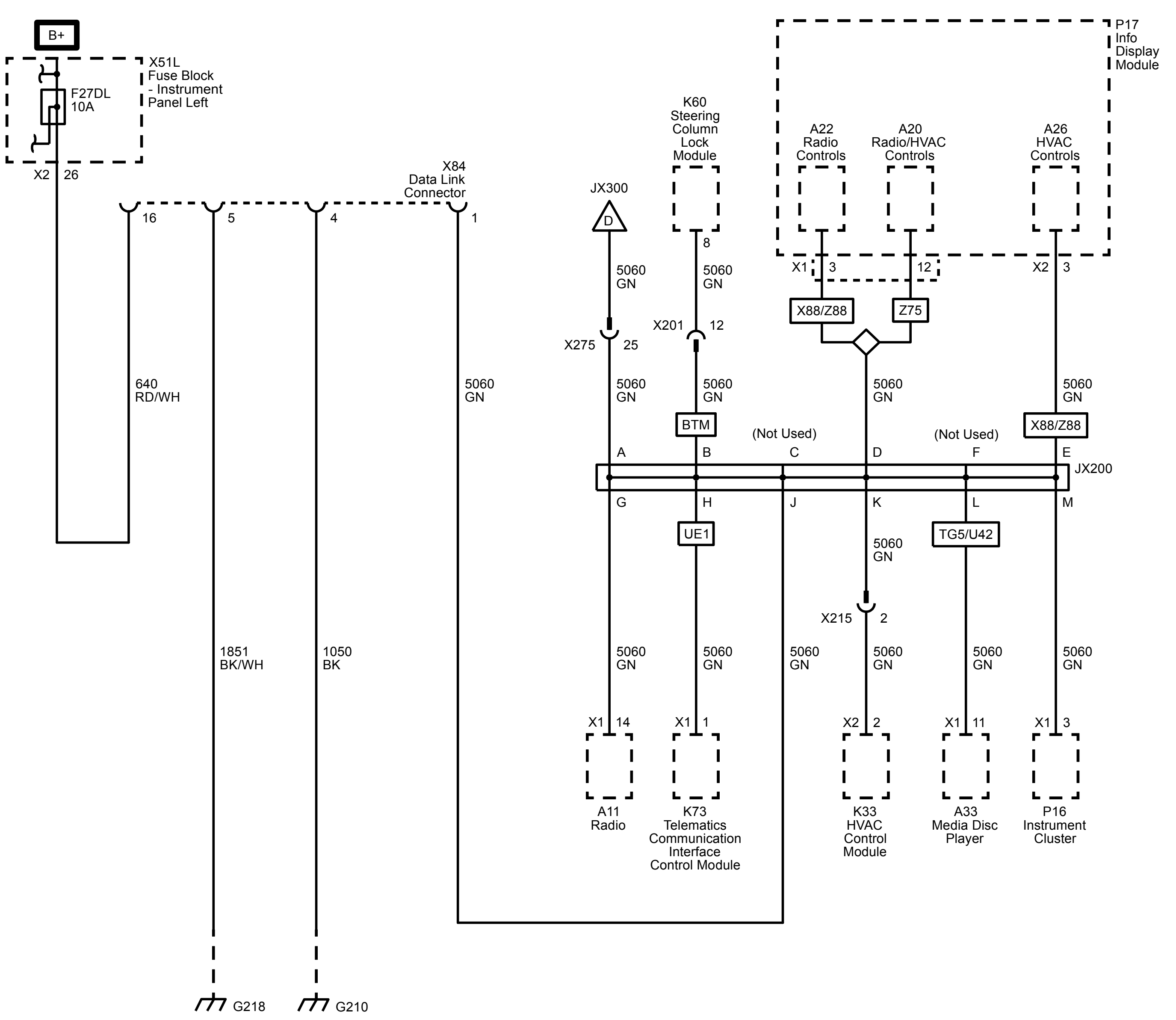
Power and Signal Distribution

Data Communications

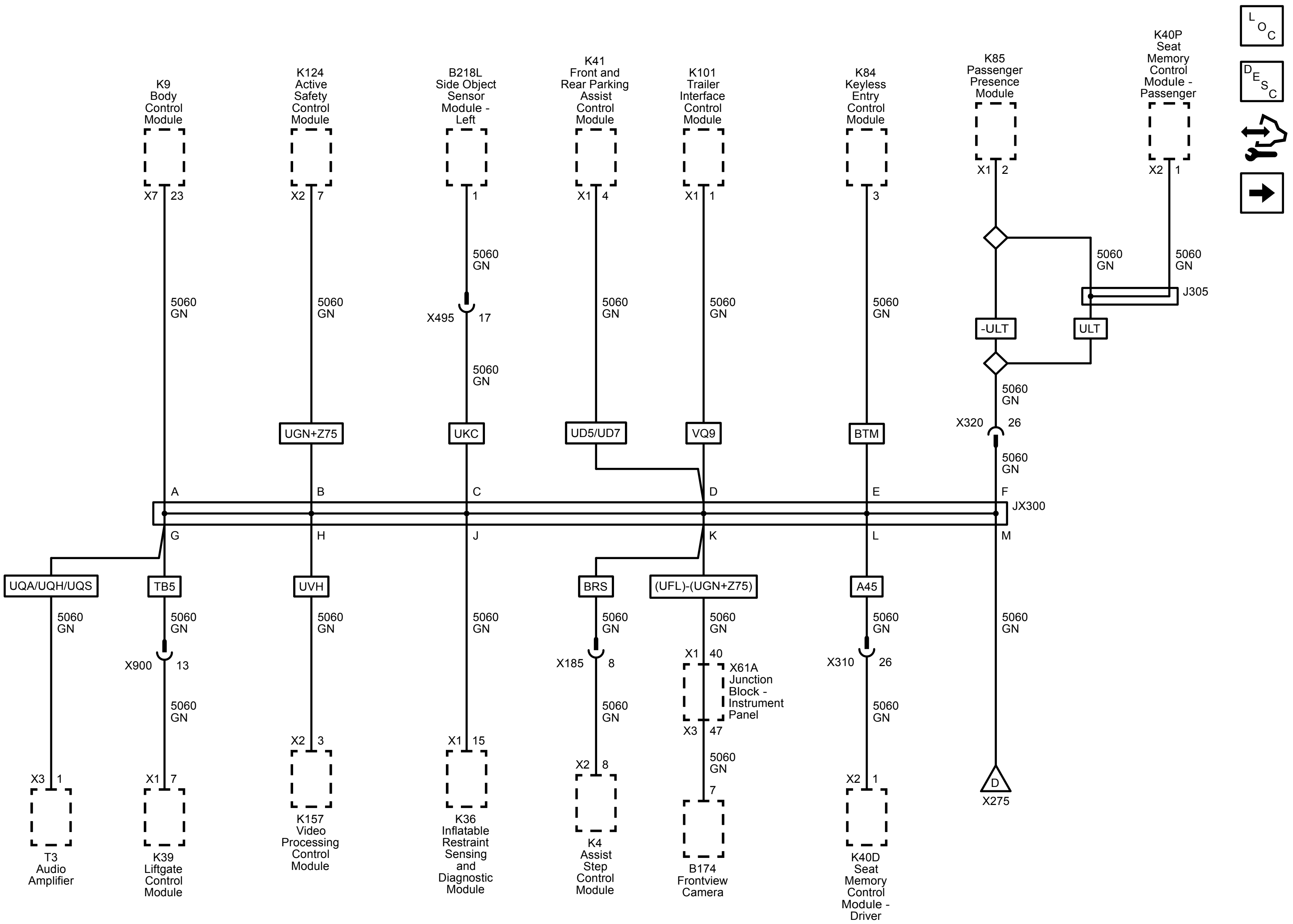
Schematic and Routing Diagrams

Data Communication Schematics

Data Link Power and Ground, and Low Speed GMLAN (1 of 2)

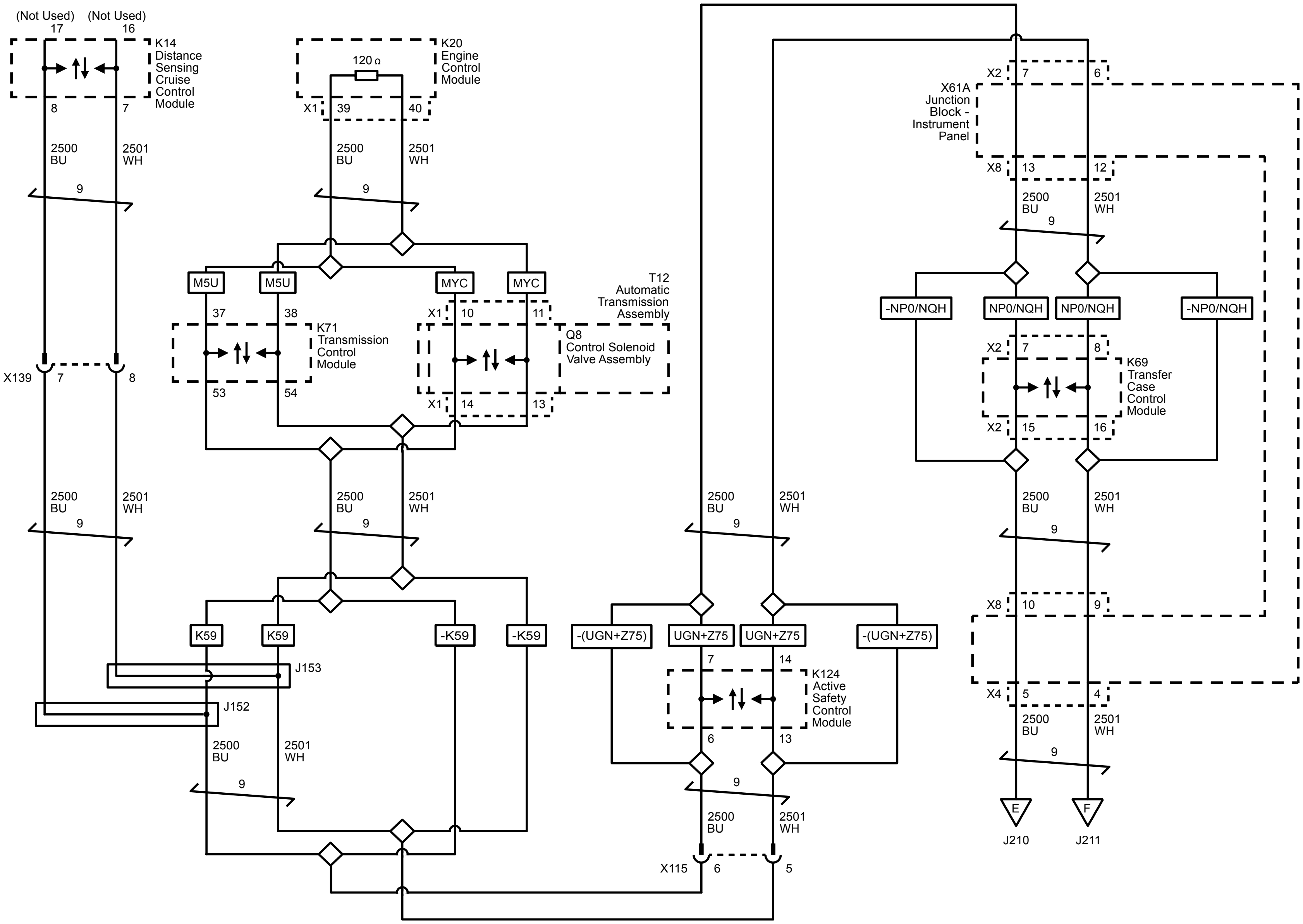

B+
X51L
Fuse Block
- Instrument
Panel Left
F27DL
10A
X2
26
640
RD/WH
16
5
4
1
X84
Data Link
Connector
1851
BK/WH
1050
BK
G218
G210
5060
GN
JX300
D
5060
GN
X275
25
K60
Steering
Column
Lock
Module
8
5060
GN
X201
12
BTM
P17
Info
Display
Module
A22
Radio
Controls
A20
Radio/HVAC
Controls
A26
HVAC
Controls
X1
3
12
X2
3
X88/Z88
Z75
X88/Z88
(Not Used)
(Not Used)
A
B
C
D
F
E
JX200
G
H
J
K
L
M
UE1
TG5/U42
X215
2
X1
14
X1
1
X2
2
X1
11
X1
3
A11
Radio
K73
Telematics
Communication
Interface
Control Module
K33
HVAC
Control
Module
A33
Media Disc
Player
P16
Instrument
Cluster

Data Link Power and Ground, and Low Speed GMLAN (2 of 2)



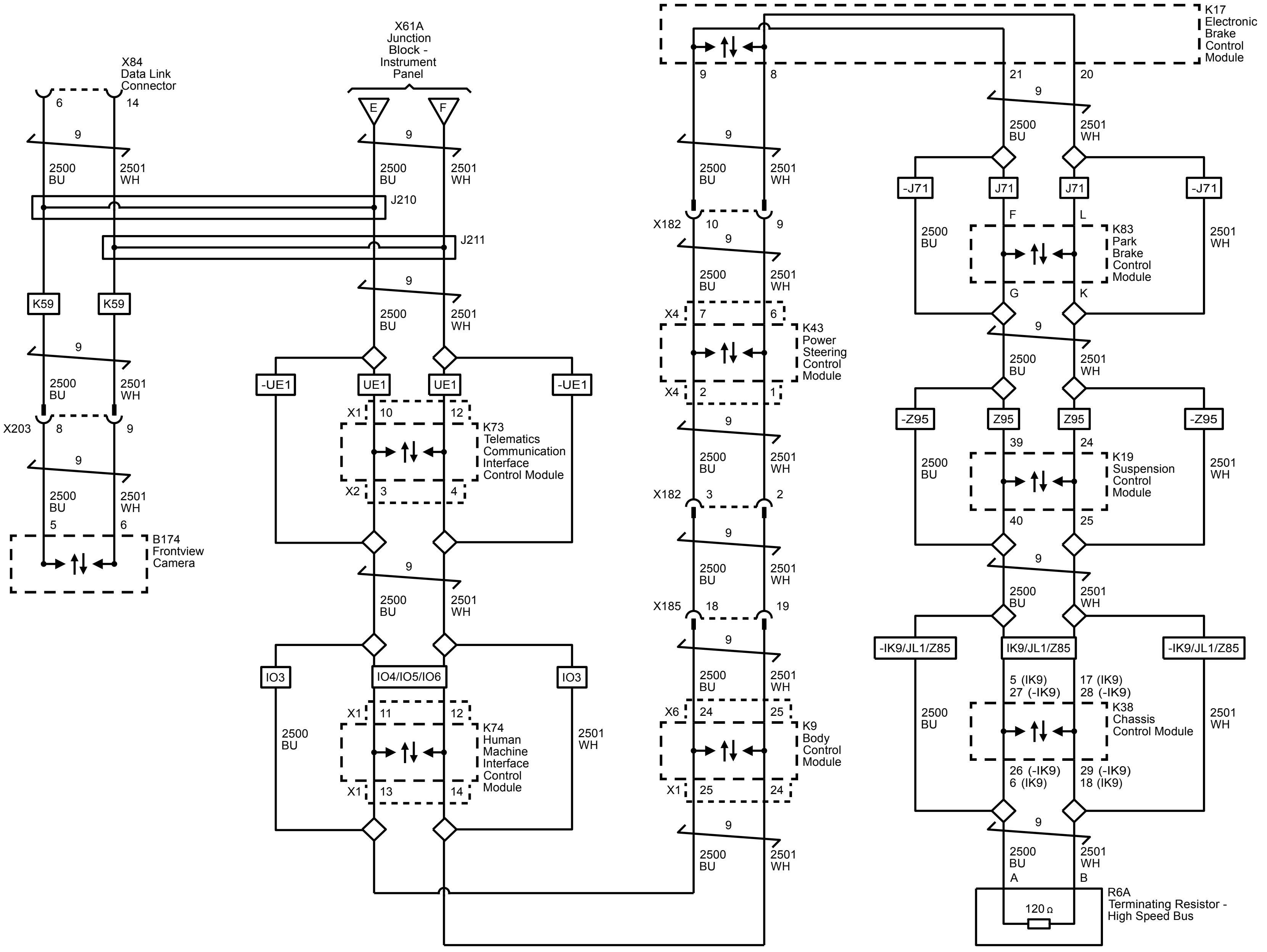
K9 Body Control Module
X7 23
5060 GN
K124 Active Safety Control Module
X2 7
UGN+Z75
B218L Side Object Sensor Module - Left
1
X495 17
UKC
K41 Front and Rear Parking Assist Control Module
X1 4
UD5/UD7
K101 Trailer Interface Control Module
X1 1
VQ9
K84 Keyless Entry Control Module
3
BTM
K85 Passenger Presence Module
X1 2
-ULT
ULT
K40P Seat Memory Control Module - Passenger
X2 1
J305
X320 26
A B C D E F
JX300
G H J K L M
UQA/UQH/UQS
TB5
UVH
BRS
(UFL)-(UGN+Z75)
A45
X900 13
X185 8
X1 40
X61A Junction Block - Instrument Panel
X3 47
X310 26
X3 1
X1 7
X2 3
X1 15
X2 8
7
X2 1
D
X275
T3 Audio Amplifier
K39 Liftgate Control Module
K157 Video Processing Control Module
K36 Inflatable Restraint Sensing and Diagnostic Module
K4 Assist Step Control Module
B174 Frontview Camera
K40D Seat Memory Control Module - Driver
LOC
DESC

High Speed GMLAN (1 of 2)

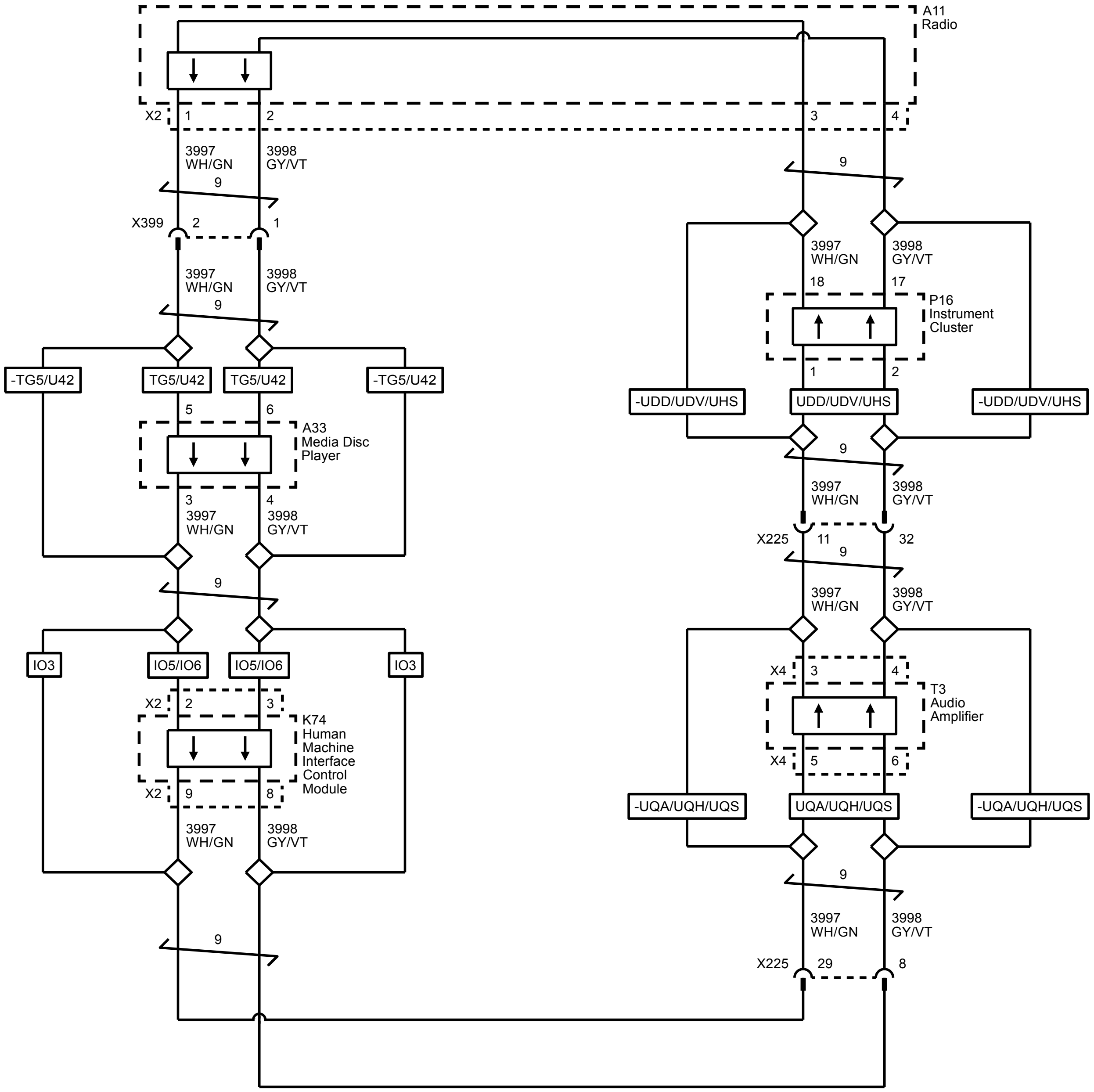


(Not Used)
(Not Used)
17
16
K14 Distance Sensing Cruise Control Module
8
7
2500 BU
2501 WH
9
X139
7
8
2500 BU
2501 WH
9
J153
J152
K20 Engine Control Module
120 Ω
X1
39
40
2500 BU
2501 WH
9
M5U
M5U
MYC
MYC
37
38
K71 Transmission Control Module
53
54
T12 Automatic Transmission Assembly
X1
10
11
Q8 Control Solenoid Valve Assembly
X1
14
13
2500 BU
2501 WH
9
K59
K59
-K59
-K59
2500 BU
2501 WH
9
X115
6
5
2500 BU
2501 WH
9
-(UGN+Z75)
UGN+Z75
UGN+Z75
-(UGN+Z75)
7
14
K124 Active Safety Control Module
6
13
9
2500 BU
2501 WH
X2
7
6
X61A Junction Block - Instrument Panel
X8
13
12
2500 BU
2501 WH
9
-NP0/NQH
NP0/NQH
NP0/NQH
-NP0/NQH
X2
7
8
K69 Transfer Case Control Module
X2
15
16
2500 BU
2501 WH
9
X8
10
9
X4
5
4
2500 BU
2501 WH
9
E
F
J210
J211

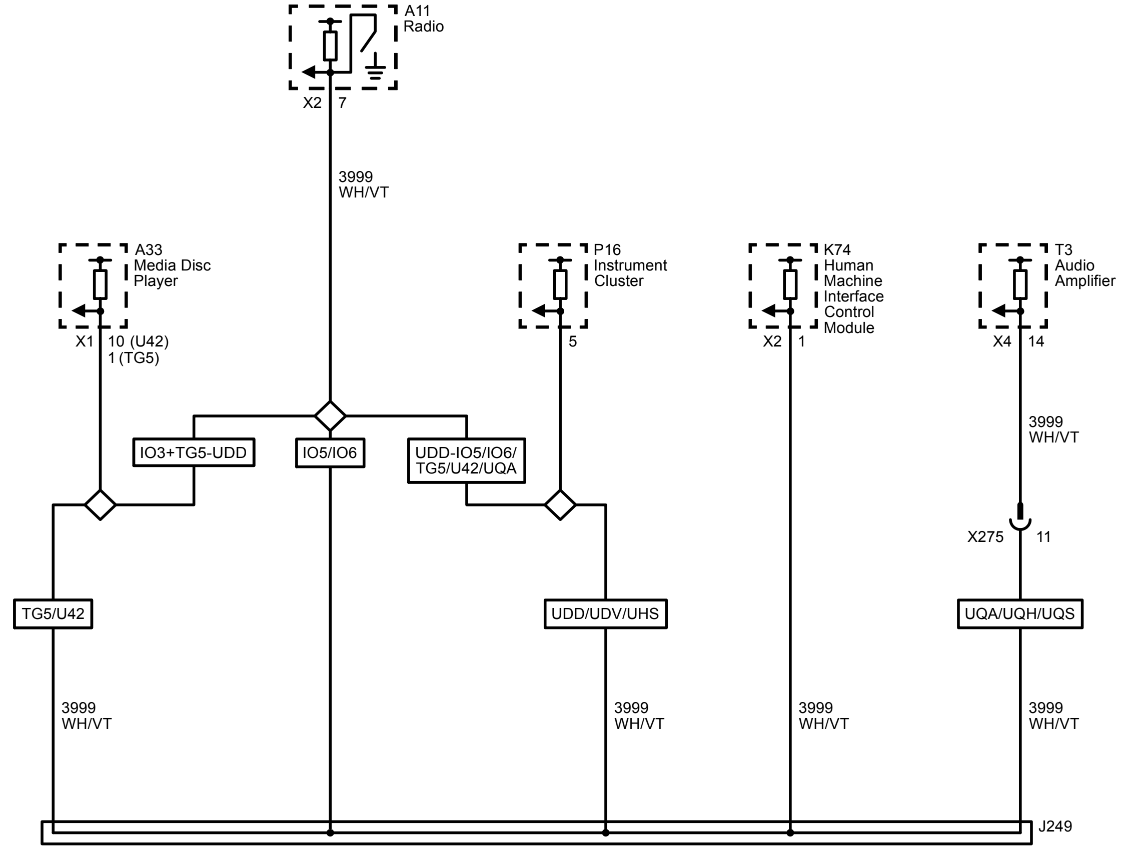
High Speed GMLAN (2 of 2)


X84
Data Link
Connector
6
14
9
2500
BU
2501
WH
J210
J211
K59
K59
X203
8
9
5
6
B174
Frontview
Camera
X61A
Junction
Block -
Instrument
Panel
E
F
-UE1
UE1
UE1
-UE1
X1
10
12
K73
Telematics
Communication
Interface
Control Module
X2
3
4
IO3
IO4/IO5/IO6
IO3
X1
11
12
K74
Human
Machine
Interface
Control
Module
X1
13
14
K17
Electronic
Brake
Control
Module
9
8
X182
10
9
X4
7
6
K43
Power
Steering
Control
Module
X4
2
1
X182
3
2
X185
18
19
X6
24
25
K9
Body
Control
Module
X1
25
24
21
20
-J71
J71
J71
-J71
F
L
K83
Park
Brake
Control
Module
G
K
-Z95
Z95
Z95
-Z95
39
24
K19
Suspension
Control
Module
40
25
-IK9/JL1/Z85
IK9/JL1/Z85
-IK9/JL1/Z85
5 (IK9)
27 (-IK9)
17 (IK9)
28 (-IK9)
K38
Chassis
Control Module
26 (-IK9)
6 (IK9)
29 (-IK9)
18 (IK9)
A
B
R6A
Terminating Resistor -
High Speed Bus
120 Ω

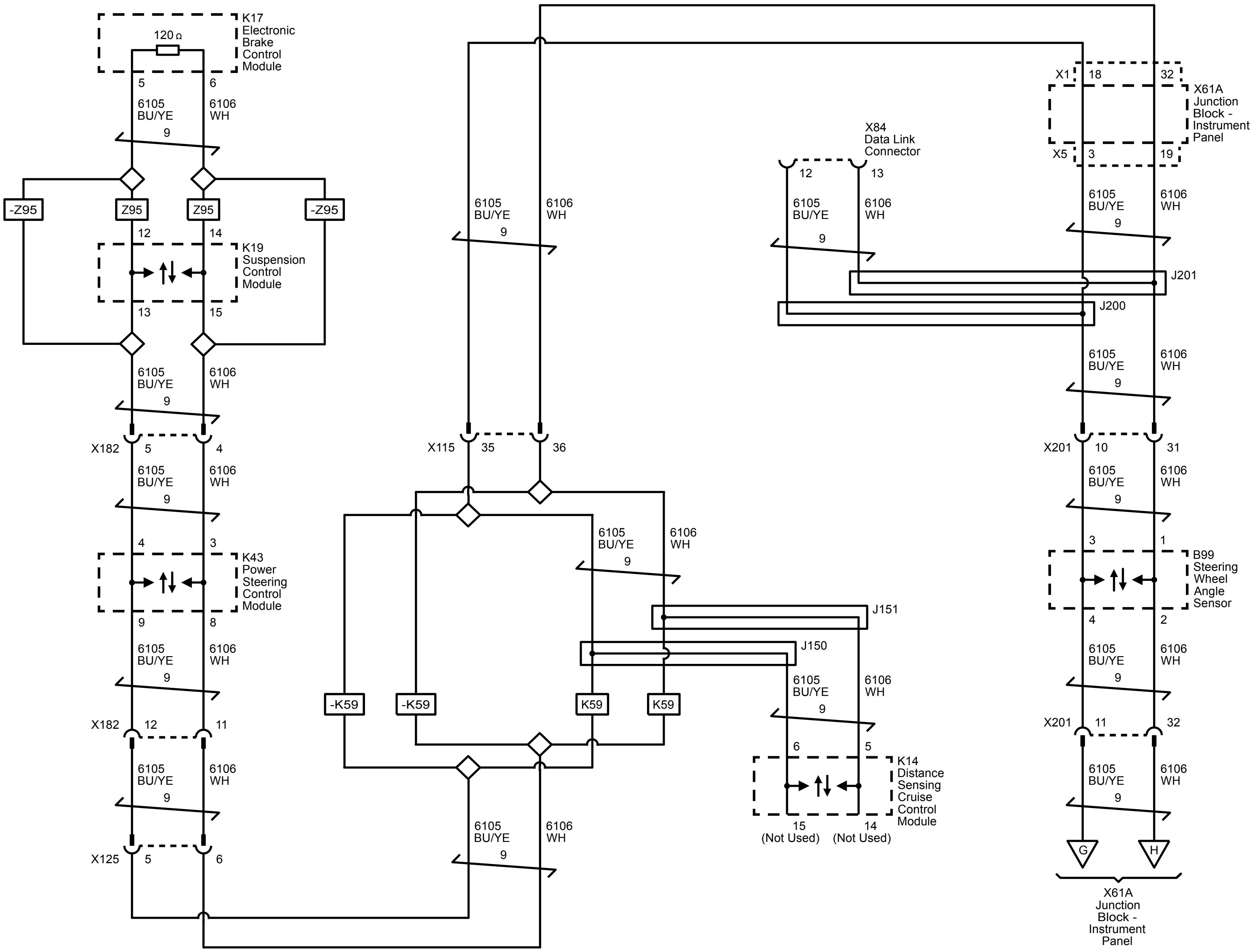
MOST Communication Bus

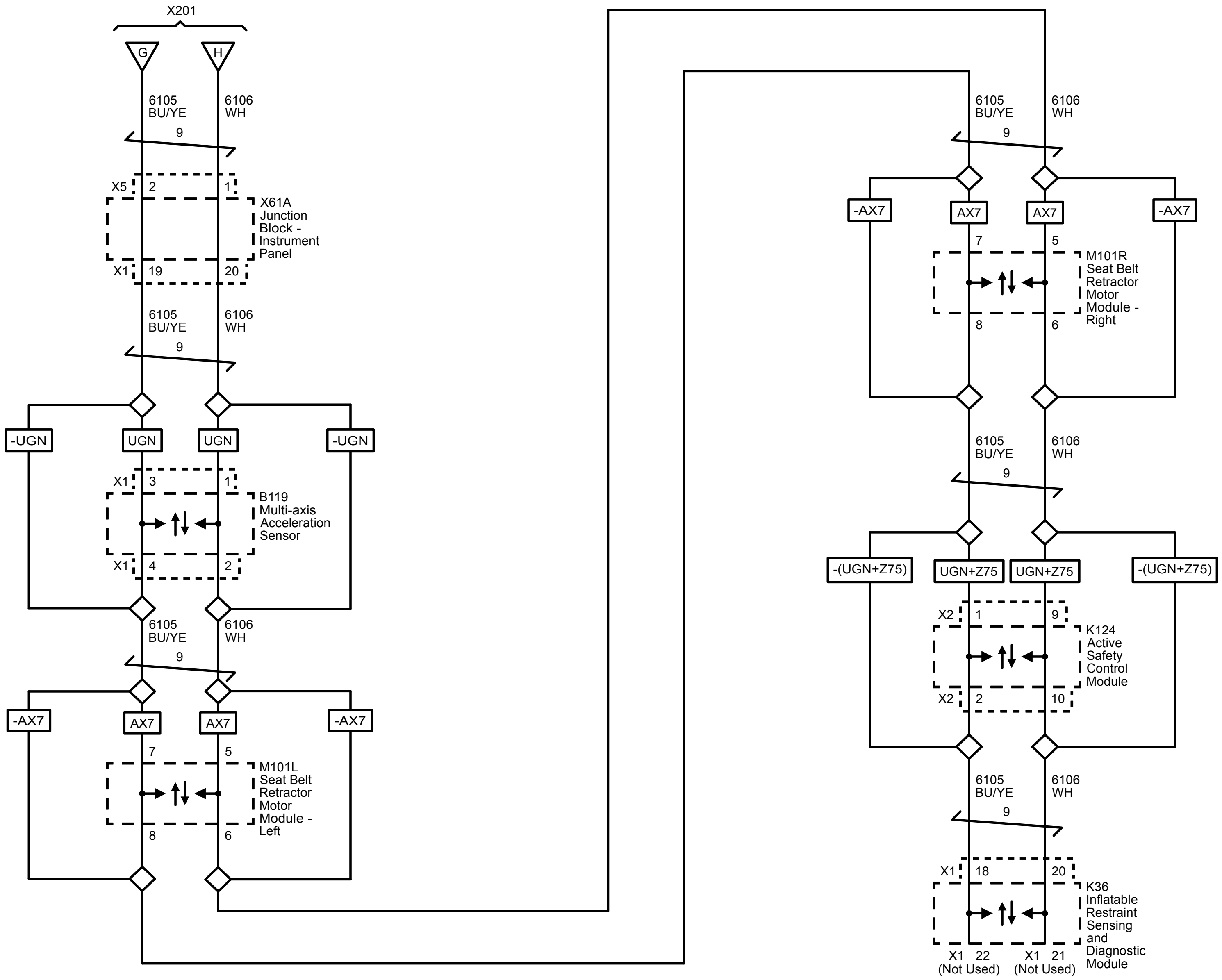

A11
Radio
X2
1
2
3
4
3997
WH/GN
3998
GY/VT
9
X399
2
1
-TG5/U42
TG5/U42
TG5/U42
-TG5/U42
5
6
A33
Media Disc
Player
3
4
IO3
IO5/IO6
IO5/IO6
IO3
X2
2
3
K74
Human
Machine
Interface
Control
Module
X2
9
8
18
17
P16
Instrument
Cluster
1
2
-UDD/UDV/UHS
UDD/UDV/UHS
-UDD/UDV/UHS
X225
11
32
X4
3
4
T3
Audio
Amplifier
X4
5
6
-UQA/UQH/UQS
UQA/UQH/UQS
-UQA/UQH/UQS
X225
29
8

MOST Bus Communications Enable

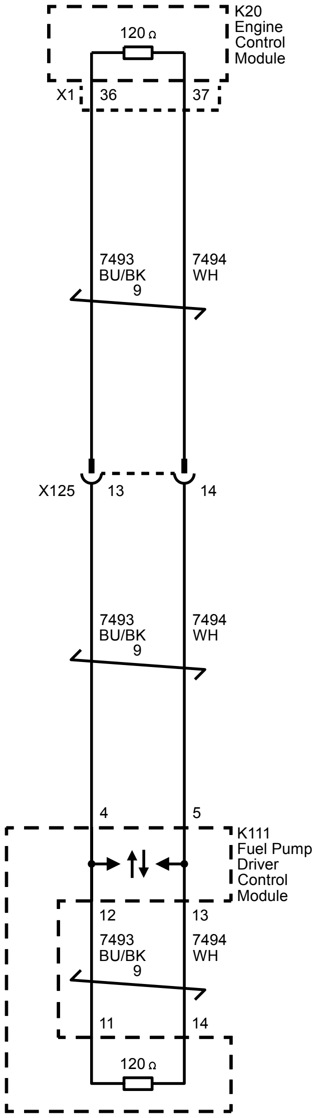

A11
Radio
X2
7
3999
WH/VT
A33
Media Disc
Player
X1
10 (U42)
1 (TG5)
P16
Instrument
Cluster
5
K74
Human
Machine
Interface
Control
Module
X2
1
T3
Audio
Amplifier
X4
14
3999
WH/VT
IO3+TG5-UDD
IO5/IO6
UDD-IO5/IO6/
TG5/U42/UQA
X275
11
TG5/U42
UDD/UDV/UHS
UQA/UQH/UQS
3999
WH/VT
3999
WH/VT
3999
WH/VT
3999
WH/VT
J249

Chassis Expansion Bus (1 of 2)

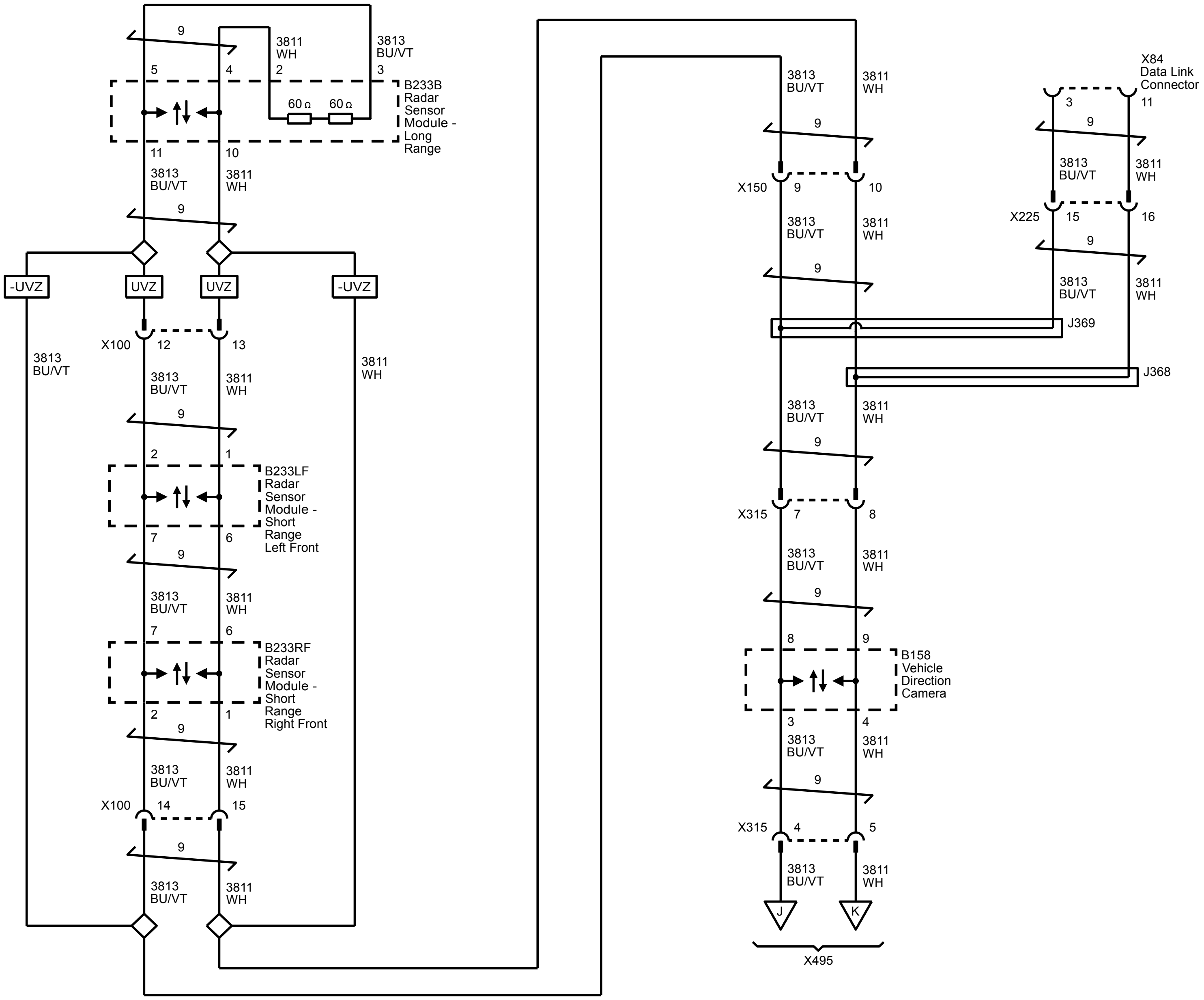

120 Ω
K17 Electronic Brake Control Module
5
6
6105 BU/YE
6106 WH
9
-Z95
Z95
Z95
-Z95
12
14
K19 Suspension Control Module
13
15
6105 BU/YE
6106 WH
9
X182
5
4
6105 BU/YE
6106 WH
9
4
3
K43 Power Steering Control Module
9
8
6105 BU/YE
6106 WH
9
X182
12
11
6105 BU/YE
6106 WH
9
X125
5
6
6105 BU/YE
6106 WH
9
X115
35
36
6105 BU/YE
6106 WH
9
J151
J150
-K59
-K59
K59
K59
6105 BU/YE
6106 WH
9
6105 BU/YE
6106 WH
9
X84 Data Link Connector
12
13
6105 BU/YE
6106 WH
9
J201
J200
6
5
K14 Distance Sensing Cruise Control Module
15 (Not Used)
14 (Not Used)
X1
18
32
X61A Junction Block - Instrument Panel
X5
3
19
6105 BU/YE
6106 WH
9
6105 BU/YE
6106 WH
9
X201
10
31
6105 BU/YE
6106 WH
9
3
1
B99 Steering Wheel Angle Sensor
4
2
6105 BU/YE
6106 WH
9
X201
11
32
6105 BU/YE
6106 WH
9
G
H
X61A Junction Block - Instrument Panel


X201
G
H
6105
BU/YE
6106
WH
9
X5
2
1
X61A
Junction
Block -
Instrument
Panel
X1
19
20
6105
BU/YE
6106
WH
9
-UGN
UGN
UGN
-UGN
X1
3
1
B119
Multi-axis
Acceleration
Sensor
X1
4
2
6105
BU/YE
6106
WH
9
-AX7
AX7
AX7
-AX7
7
5
M101L
Seat Belt
Retractor
Motor
Module -
Left
8
6
6105
BU/YE
6106
WH
9
-AX7
AX7
AX7
-AX7
7
5
M101R
Seat Belt
Retractor
Motor
Module -
Right
8
6
6105
BU/YE
6106
WH
9
-(UGN+Z75)
UGN+Z75
UGN+Z75
-(UGN+Z75)
X2
1
9
K124
Active
Safety
Control
Module
X2
2
10
6105
BU/YE
6106
WH
9
X1
18
20
K36
Inflatable
Restraint
Sensing
and
Diagnostic
Module
X1 22
(Not Used)
X1 21
(Not Used)

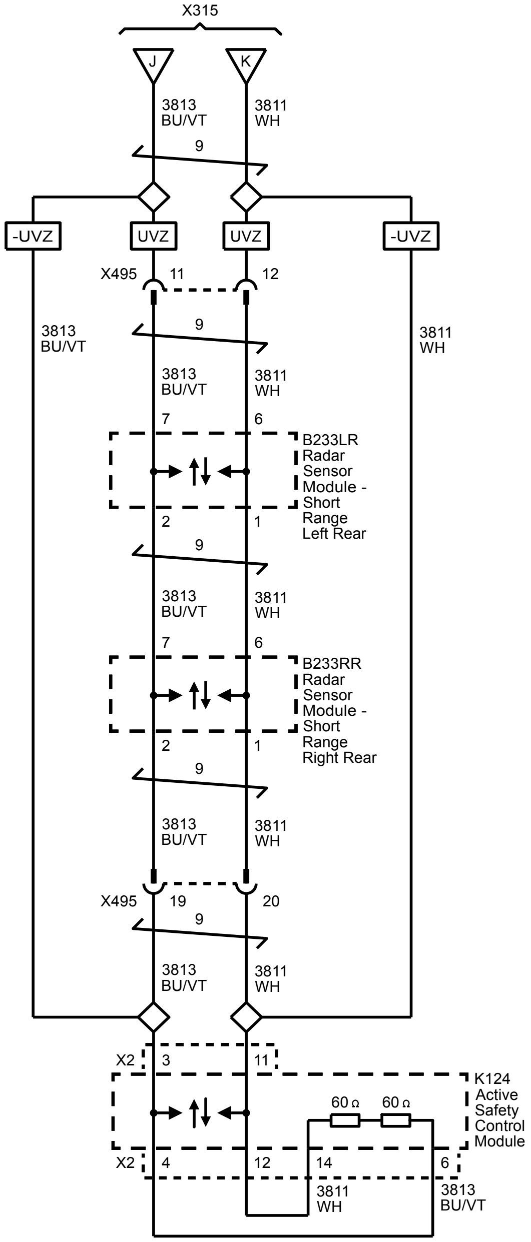
LOC
DESC


K20
Engine
Control
Module
120 Ω
X1
36
37
7493
BU/BK
9
7494
WH
X125
13
14
7493
BU/BK
9
7494
WH
4
5
K111
Fuel Pump
Driver
Control
Module
12
13
7493
BU/BK
9
7494
WH
11
14
120 Ω

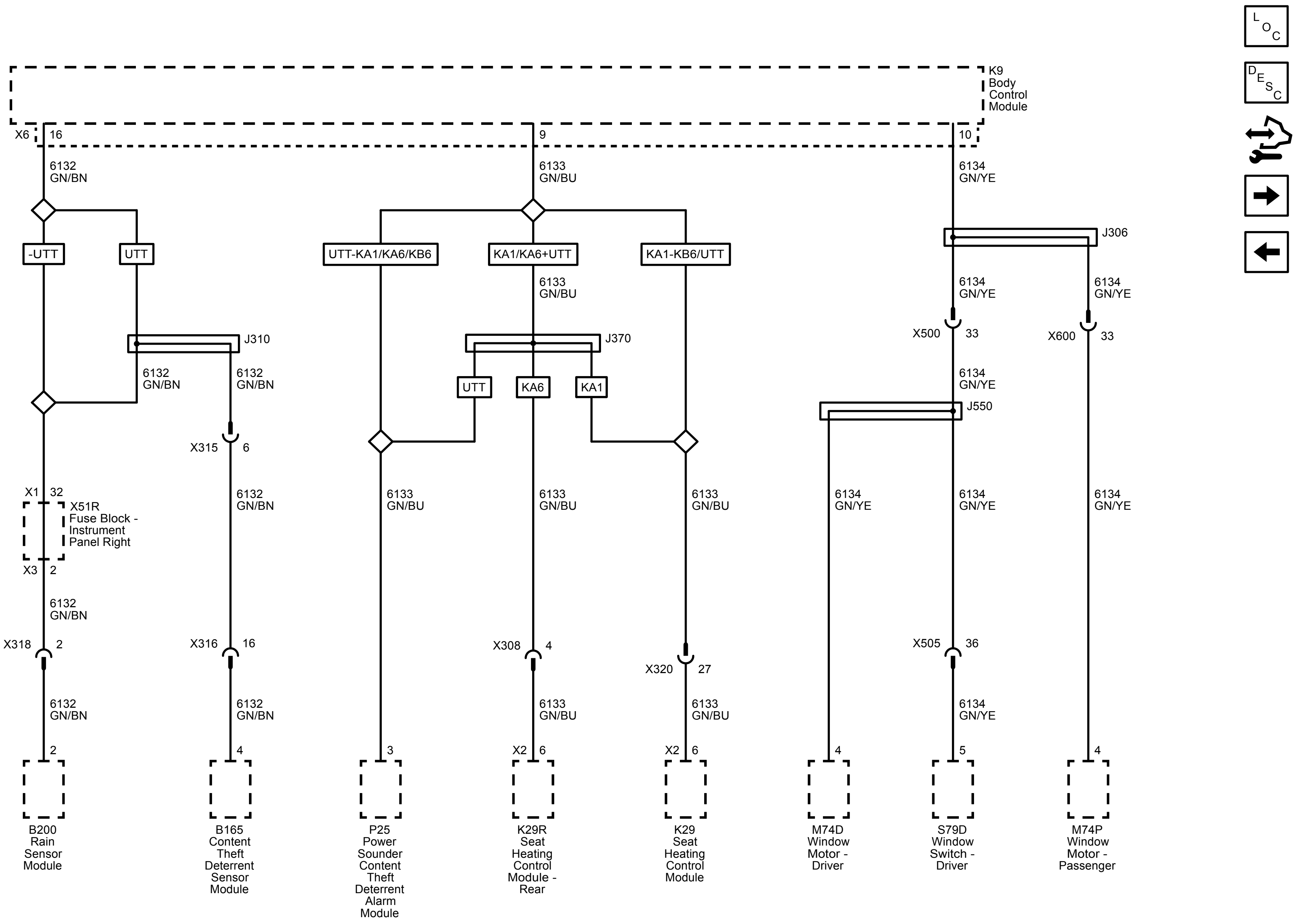
Object Detection Bus (UGN+Z75) (1 of 2)


9
3811 WH
3813 BU/VT
5
4
2
3
60 Ω
60 Ω
B233B Radar Sensor Module - Long Range
11
10
3813 BU/VT
3811 WH
9
-UVZ
UVZ
UVZ
-UVZ
X100
12
13
3813 BU/VT
3813 BU/VT
3811 WH
3811 WH
9
2
1
B233LF Radar Sensor Module - Short Range Left Front
7
6
9
3813 BU/VT
3811 WH
7
6
B233RF Radar Sensor Module - Short Range Right Front
2
1
9
3813 BU/VT
3811 WH
X100
14
15
9
3813 BU/VT
3811 WH
3813 BU/VT
3811 WH
9
X150
9
10
3813 BU/VT
3811 WH
9
X84 Data Link Connector
3
11
9
3813 BU/VT
3811 WH
X225
15
16
9
3813 BU/VT
3811 WH
J369
J368
3813 BU/VT
3811 WH
9
X315
7
8
3813 BU/VT
3811 WH
9
8
9
B158 Vehicle Direction Camera
3
4
3813 BU/VT
3811 WH
9
X315
4
5
3813 BU/VT
3811 WH
J
K
X495

Object Detection Bus (UGN+Z75) (2 of 2)

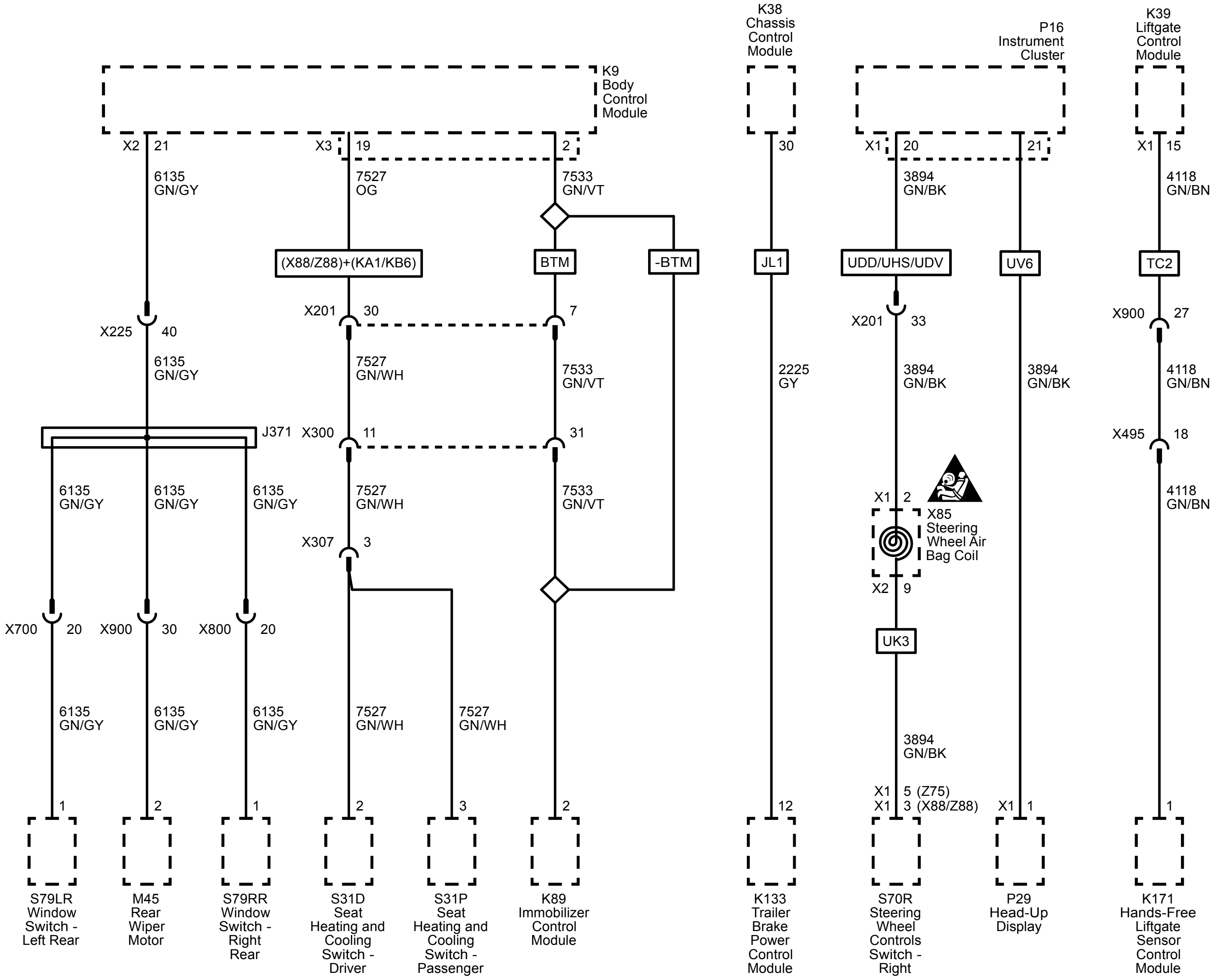

X315
J
K
3813 BU/VT
3811 WH
9
-UVZ
UVZ
UVZ
-UVZ
X495
11
12
3813 BU/VT
3811 WH
7
6
B233LR Radar Sensor Module - Short Range Left Rear
2
1
B233RR Radar Sensor Module - Short Range Right Rear
X495
19
20
X2
3
11
K124 Active Safety Control Module
60 Ω
60 Ω
X2
4
12
14
6
3811 WH
3813 BU/VT

Linear Interconnect Network (LIN) Busses (1 of 3)



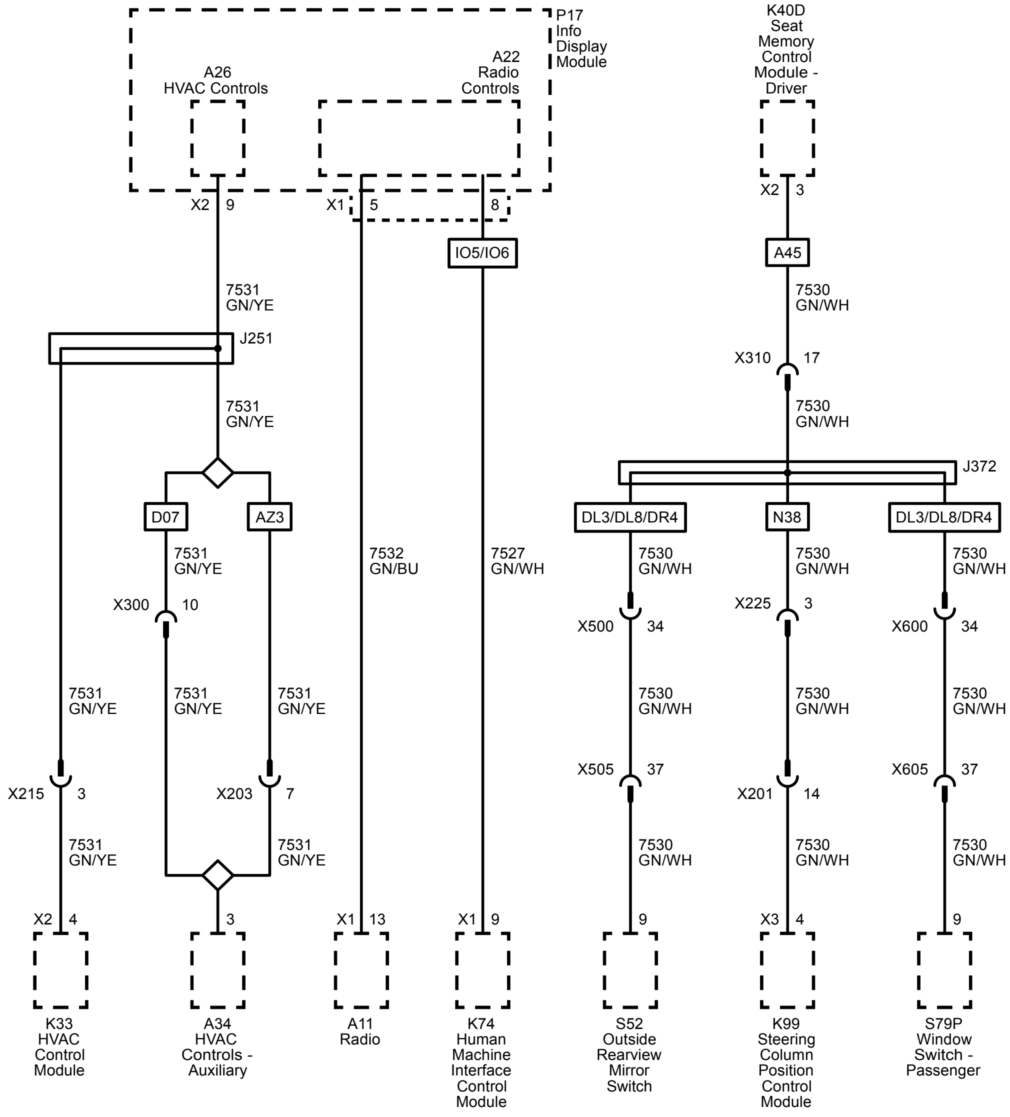
L O C
D E S C
K9 Body Control Module
X6
16
9
10
6132 GN/BN
6133 GN/BU
6134 GN/YE
-UTT
UTT
UTT-KA1/KA6/KB6
KA1/KA6+UTT
KA1-KB6/UTT
J306
J310
J370
J550
UTT
KA6
KA1
X500 33
X600 33
X315 6
X1 32
X51R Fuse Block - Instrument Panel Right
X3 2
X318 2
X316 16
X308 4
X320 27
X505 36
2
4
3
X2 6
X2 6
4
5
4
B200 Rain Sensor Module
B165 Content Theft Deterrent Sensor Module
P25 Power Sounder Content Theft Deterrent Alarm Module
K29R Seat Heating Control Module - Rear
K29 Seat Heating Control Module
M74D Window Motor - Driver
S79D Window Switch - Driver
M74P Window Motor - Passenger

Linear Interconnect Network (LIN) Busses (2 of 3)

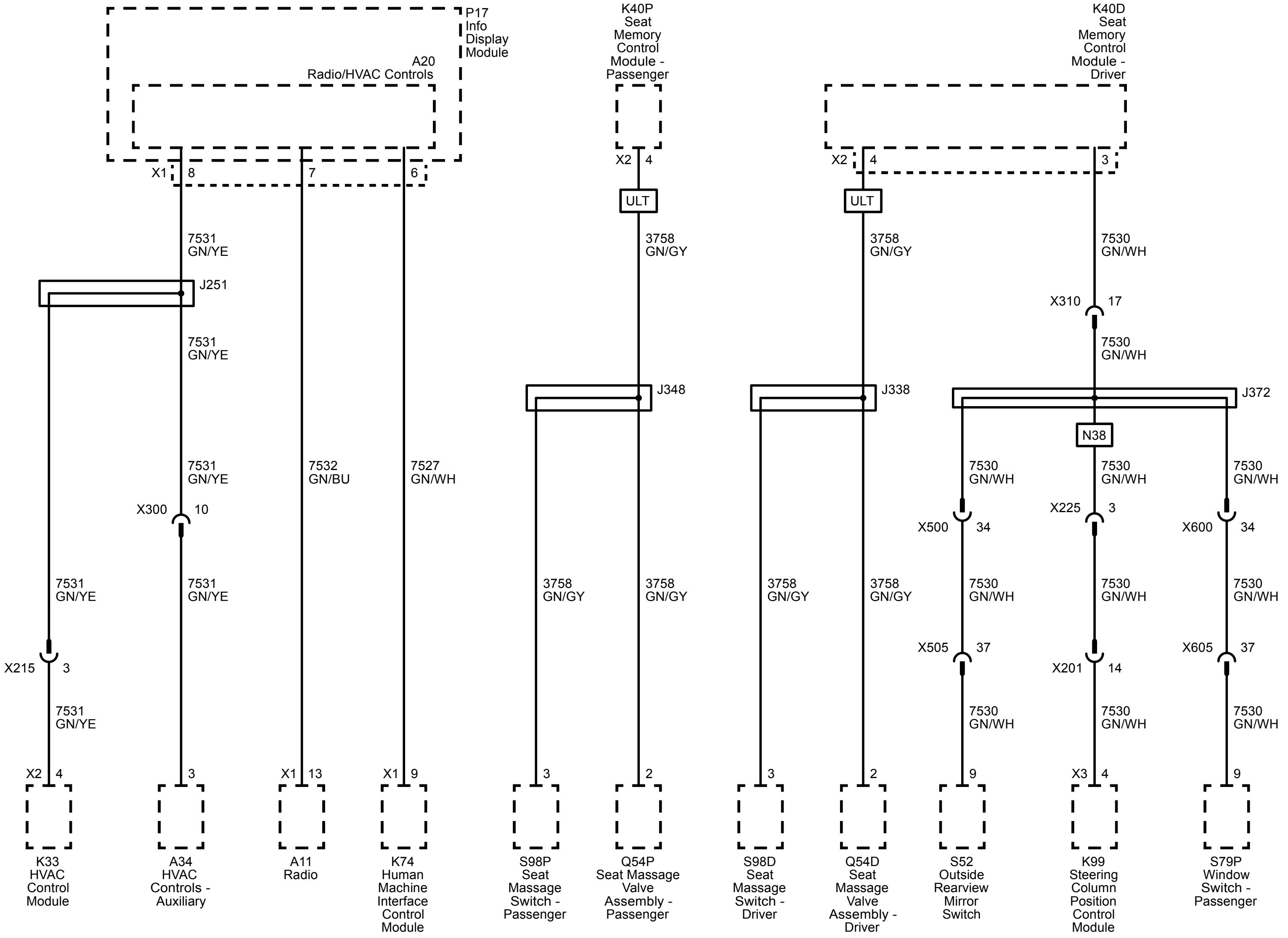

K9 Body Control Module
X2 21
6135 GN/GY
X225 40
6135 GN/GY
J371
6135 GN/GY
6135 GN/GY
6135 GN/GY
X700 20
X900 30
X800 20
6135 GN/GY
6135 GN/GY
6135 GN/GY
1
2
1
S79LR Window Switch - Left Rear
M45 Rear Wiper Motor
S79RR Window Switch - Right Rear
X3 19
7527 OG
(X88/Z88)+(KA1/KB6)
X201 30
7527 GN/WH
X300 11
7527 GN/WH
X307 3
7527 GN/WH
7527 GN/WH
2
3
S31D Seat Heating and Cooling Switch - Driver
S31P Seat Heating and Cooling Switch - Passenger
2
7533 GN/VT
BTM
-BTM
7
7533 GN/VT
31
7533 GN/VT
2
K89 Immobilizer Control Module
K38 Chassis Control Module
30
JL1
2225 GY
12
K133 Trailer Brake Power Control Module
P16 Instrument Cluster
X1 20
21
3894 GN/BK
UDD/UHS/UDV
UV6
X201 33
3894 GN/BK
3894 GN/BK
X1 2
X85 Steering Wheel Air Bag Coil
X2 9
UK3
3894 GN/BK
X1 5 (Z75)
X1 3 (X88/Z88)
X1 1
S70R Steering Wheel Controls Switch - Right
P29 Head-Up Display
K39 Liftgate Control Module
X1 15
4118 GN/BN
TC2
X900 27
4118 GN/BN
X495 18
4118 GN/BN
1
K171 Hands-Free Liftgate Sensor Control Module

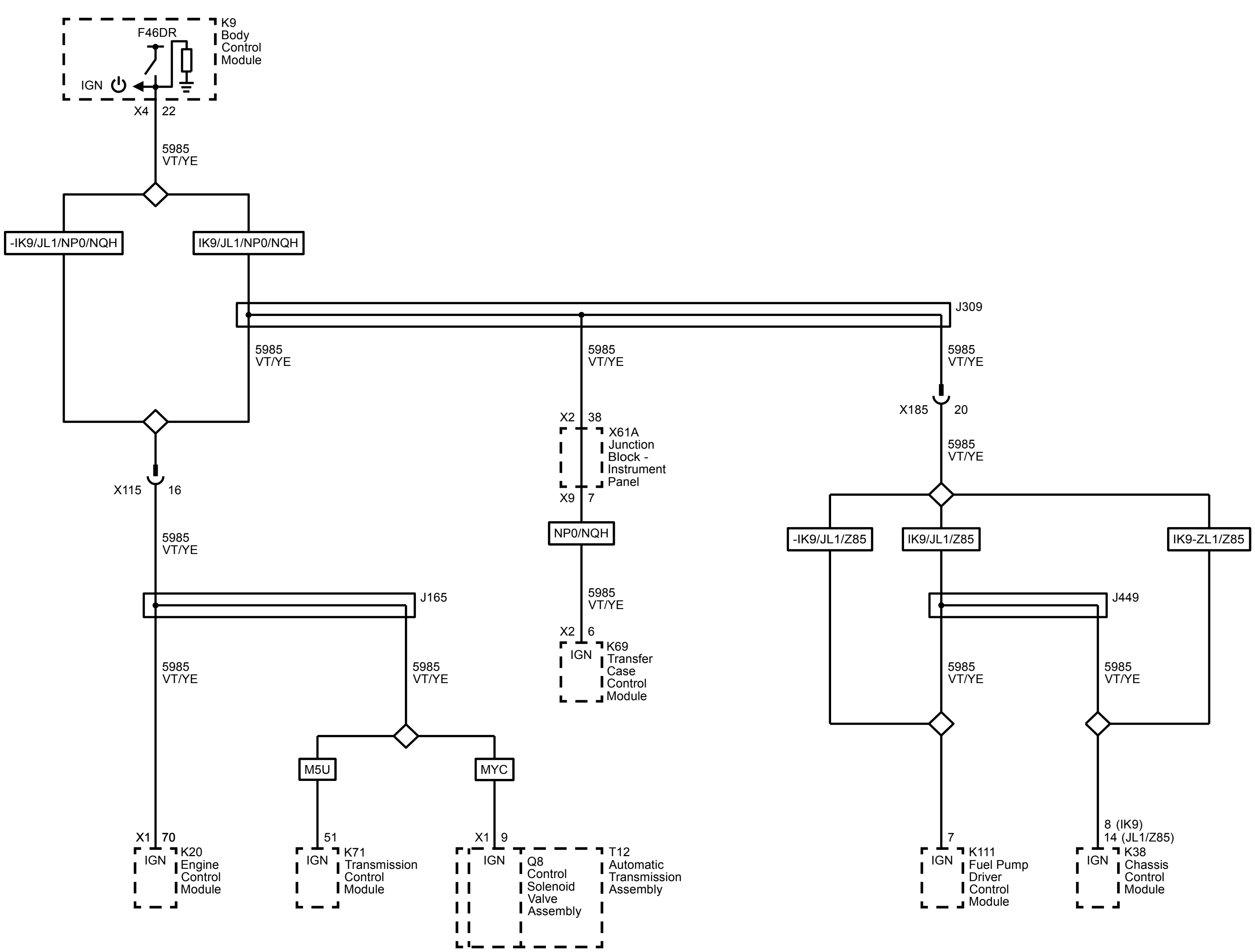
LOC
DESC

Linear Interconnect Network (LIN) Busses (3 of 3) (X88 or Z88)

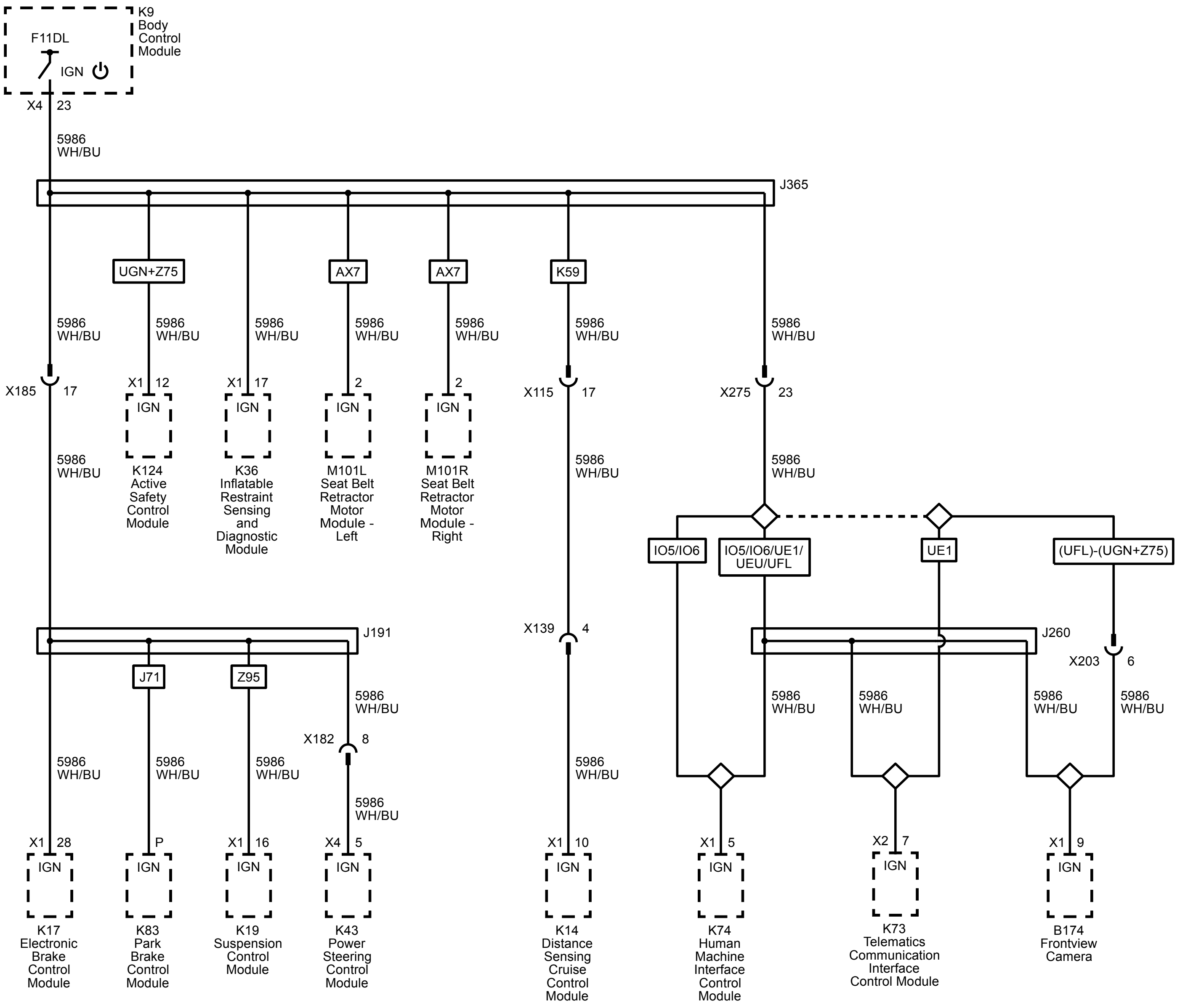

P17 Info Display Module
A26 HVAC Controls
A22 Radio Controls
X2 9
X1 5
8
IO5/IO6
7531 GN/YE
J251
7531 GN/YE
D07
AZ3
7531 GN/YE
X300 10
7531 GN/YE
7531 GN/YE
7531 GN/YE
X215 3
X203 7
7531 GN/YE
7531 GN/YE
7532 GN/BU
7527 GN/WH
X2 4
3
X1 13
X1 9
K33 HVAC Control Module
A34 HVAC Controls - Auxiliary
A11 Radio
K74 Human Machine Interface Control Module
K40D Seat Memory Control Module - Driver
X2 3
A45
7530 GN/WH
X310 17
7530 GN/WH
J372
DL3/DL8/DR4
N38
DL3/DL8/DR4
7530 GN/WH
7530 GN/WH
7530 GN/WH
X500 34
X225 3
X600 34
7530 GN/WH
7530 GN/WH
7530 GN/WH
X505 37
X201 14
X605 37
7530 GN/WH
7530 GN/WH
7530 GN/WH
9
X3 4
9
S52 Outside Rearview Mirror Switch
K99 Steering Column Position Control Module
S79P Window Switch - Passenger

Linear Interconnect Network (LIN) Busses (3 of 3) (Z75)

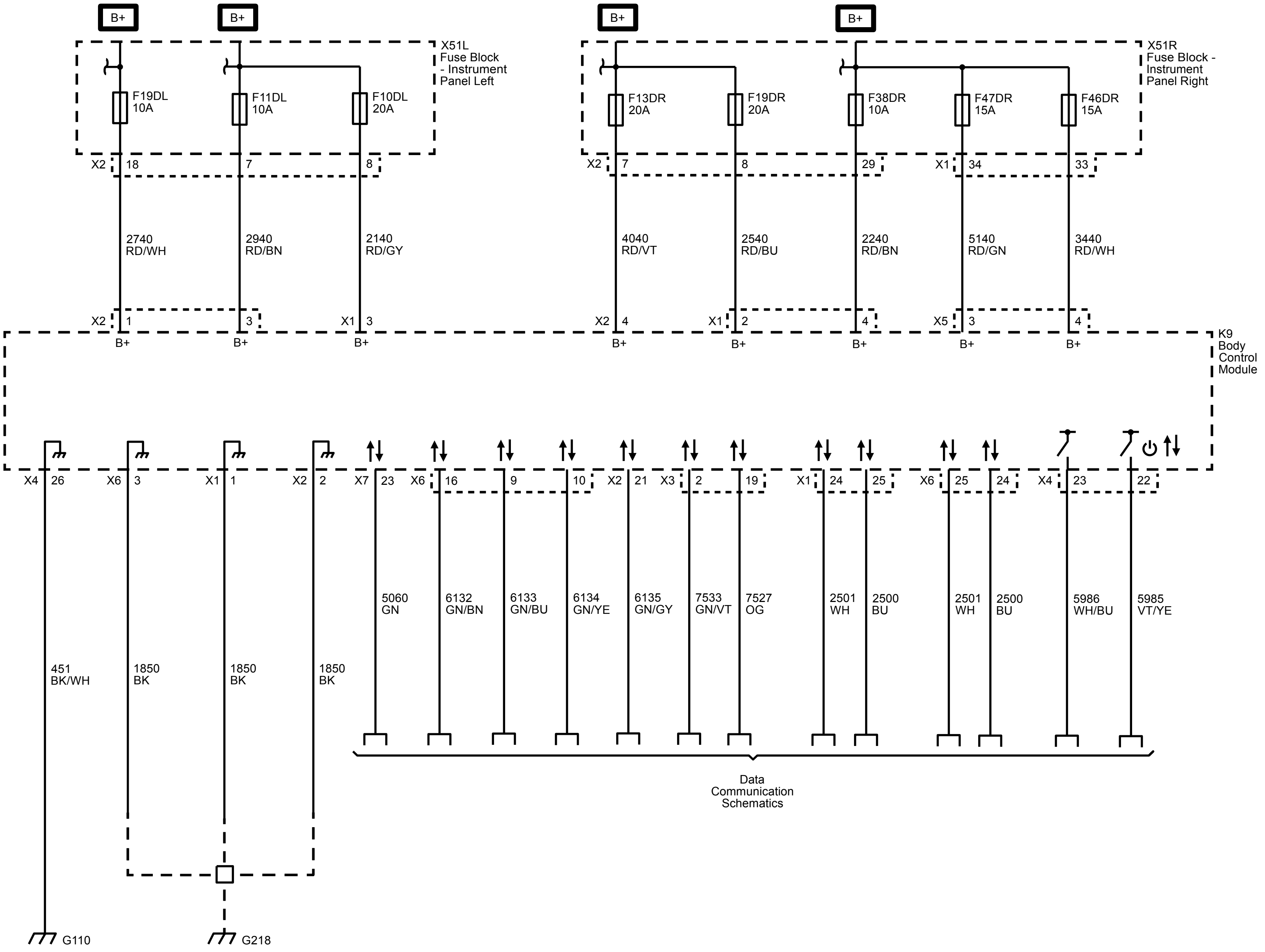

P17
Info
Display
Module
A20
Radio/HVAC Controls
X1
8
7
6
7531
GN/YE
J251
7531
GN/YE
7531
GN/YE
X300
10
7531
GN/YE
7531
GN/YE
X215
3
7531
GN/YE
7532
GN/BU
7527
GN/WH
K40P
Seat
Memory
Control
Module -
Passenger
X2
4
ULT
3758
GN/GY
J348
3758
GN/GY
3758
GN/GY
K40D
Seat
Memory
Control
Module -
Driver
X2
4
3
ULT
3758
GN/GY
J338
3758
GN/GY
3758
GN/GY
7530
GN/WH
X310
17
7530
GN/WH
J372
N38
7530
GN/WH
X500
34
7530
GN/WH
X505
37
7530
GN/WH
7530
GN/WH
X225
3
7530
GN/WH
X201
14
7530
GN/WH
7530
GN/WH
X600
34
7530
GN/WH
X605
37
7530
GN/WH
X2
4
3
X1
13
X1
9
3
2
3
2
9
X3
4
9
K33
HVAC
Control
Module
A34
HVAC
Controls -
Auxiliary
A11
Radio
K74
Human
Machine
Interface
Control
Module
S98P
Seat
Massage
Switch -
Passenger
Q54P
Seat Massage
Valve
Assembly -
Passenger
S98D
Seat
Massage
Switch -
Driver
Q54D
Seat
Massage
Valve
Assembly -
Driver
S52
Outside
Rearview
Mirror
Switch
K99
Steering
Column
Position
Control
Module
S79P
Window
Switch -
Passenger


F46DR
K9
Body
Control
Module
IGN
X4
22
5985
VT/YE
-IK9/JL1/NP0/NQH
IK9/JL1/NP0/NQH
J309
5985
VT/YE
5985
VT/YE
5985
VT/YE
X185
20
5985
VT/YE
X2
38
X61A
Junction
Block -
Instrument
Panel
X9
7
NP0/NQH
5985
VT/YE
X2
6
IGN
K69
Transfer
Case
Control
Module
X115
16
5985
VT/YE
J165
5985
VT/YE
5985
VT/YE
M5U
MYC
X1
70
IGN
K20
Engine
Control
Module
51
IGN
K71
Transmission
Control
Module
X1
9
IGN
Q8
Control
Solenoid
Valve
Assembly
T12
Automatic
Transmission
Assembly
-IK9/JL1/Z85
IK9/JL1/Z85
IK9-ZL1/Z85
J449
5985
VT/YE
5985
VT/YE
7
IGN
K111
Fuel Pump
Driver
Control
Module
8 (IK9)
14 (JL1/Z85)
IGN
K38
Chassis
Control
Module

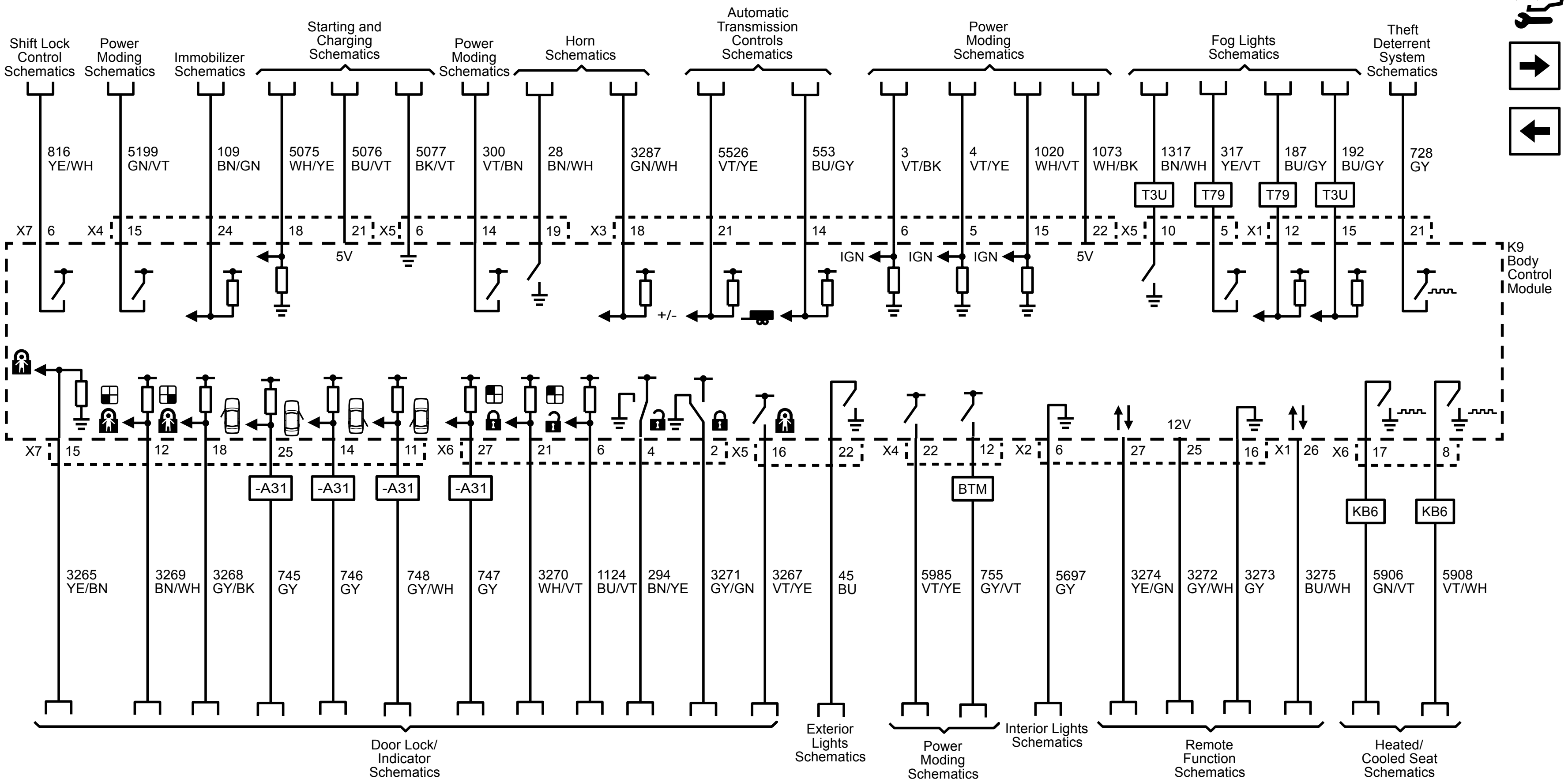
Communications Enable


K9
Body
Control
Module
F11DL
IGN
X4 23
5986
WH/BU
J365
UGN+Z75
AX7
AX7
K59
5986
WH/BU
X185 17
X1 12
IGN
K124
Active
Safety
Control
Module
X1 17
IGN
K36
Inflatable
Restraint
Sensing
and
Diagnostic
Module
2
IGN
M101L
Seat Belt
Retractor
Motor
Module -
Left
2
IGN
M101R
Seat Belt
Retractor
Motor
Module -
Right
X115 17
X275 23
IO5/IO6
IO5/IO6/UE1/
UEU/UFL
UE1
(UFL)-(UGN+Z75)
J191
J71
Z95
X139 4
J260
X203 6
X182 8
X1 28
IGN
K17
Electronic
Brake
Control
Module
P
IGN
K83
Park
Brake
Control
Module
X1 16
IGN
K19
Suspension
Control
Module
X4 5
IGN
K43
Power
Steering
Control
Module
X1 10
IGN
K14
Distance
Sensing
Cruise
Control
Module
X1 5
IGN
K74
Human
Machine
Interface
Control
Module
X2 7
IGN
K73
Telematics
Communication
Interface
Control Module
X1 9
IGN
B174
Frontview
Camera

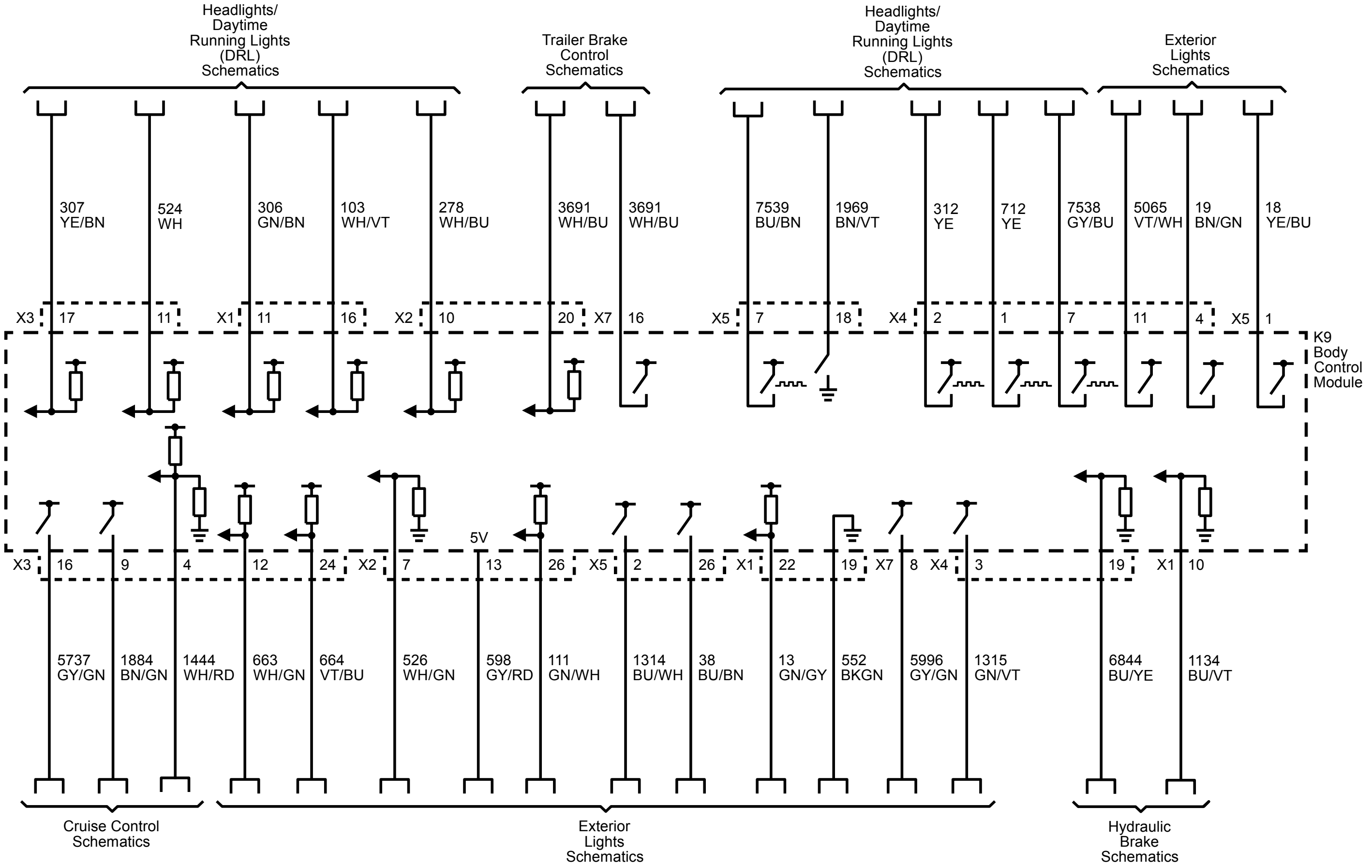
Module Power, Ground and Serial Data


B+
B+
B+
B+
X51L
Fuse Block - Instrument Panel Left
F19DL 10A
F11DL 10A
F10DL 20A
X51R
Fuse Block - Instrument Panel Right
F13DR 20A
F19DR 20A
F38DR 10A
F47DR 15A
F46DR 15A
X2 18
7
8
X2 7
8
29
X1 34
33
2740 RD/WH
2940 RD/BN
2140 RD/GY
4040 RD/VT
2540 RD/BU
2240 RD/BN
5140 RD/GN
3440 RD/WH
X2 1
3
X1 3
X2 4
X1 2
4
X5 3
4
B+
K9
Body Control Module
X4 26
X6 3
X1 1
X2 2
X7 23
X6 16
9
10
X2 21
X3 2
19
X1 24
25
X6 25
24
X4 23
22
451 BK/WH
1850 BK
1850 BK
1850 BK
5060 GN
6132 GN/BN
6133 GN/BU
6134 GN/YE
6135 GN/GY
7533 GN/VT
7527 OG
2501 WH
2500 BU
2501 WH
2500 BU
5986 WH/BU
5985 VT/YE
Data Communication Schematics
G110
G218

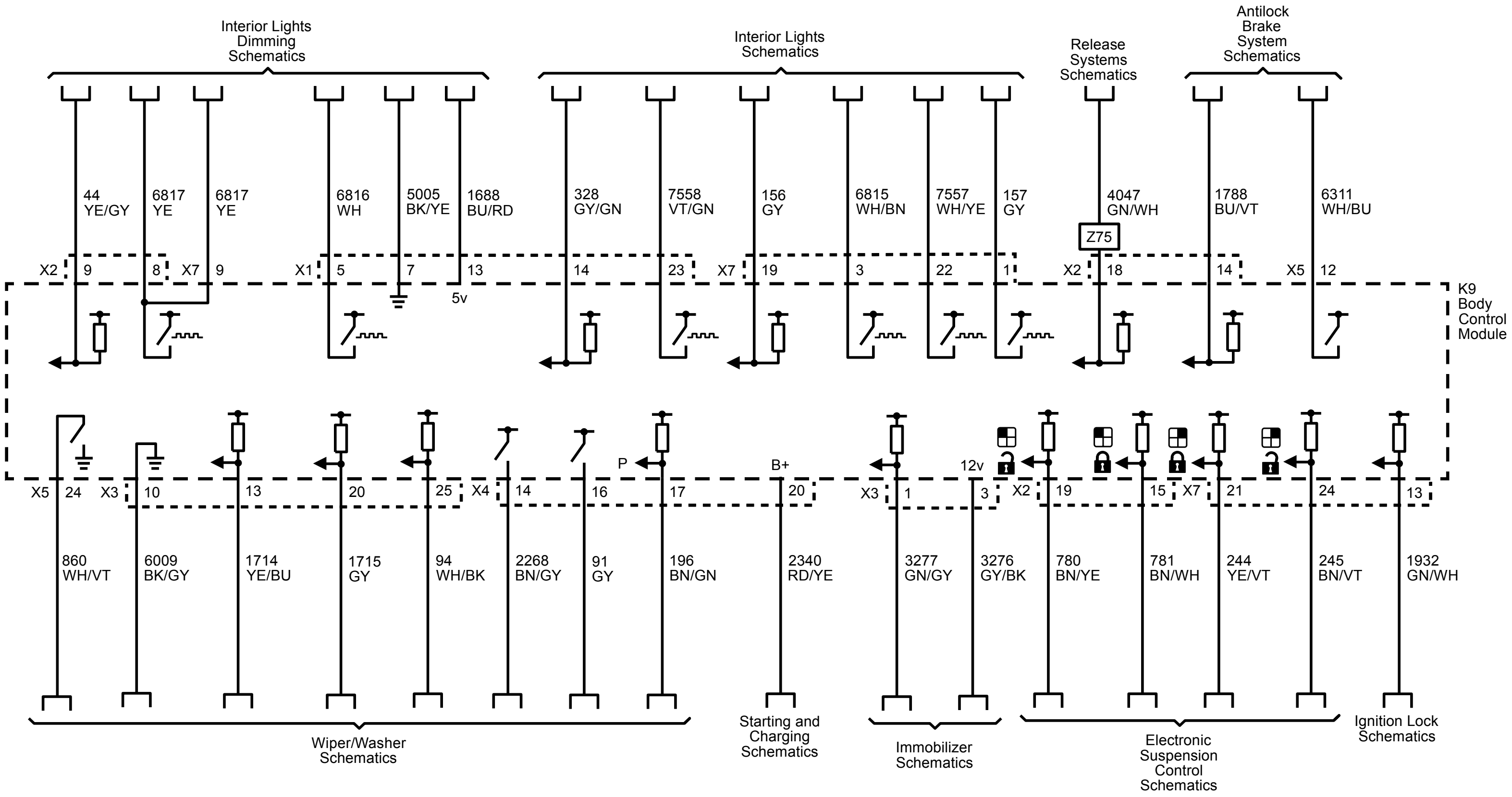
Subsystem References (1 of 4)

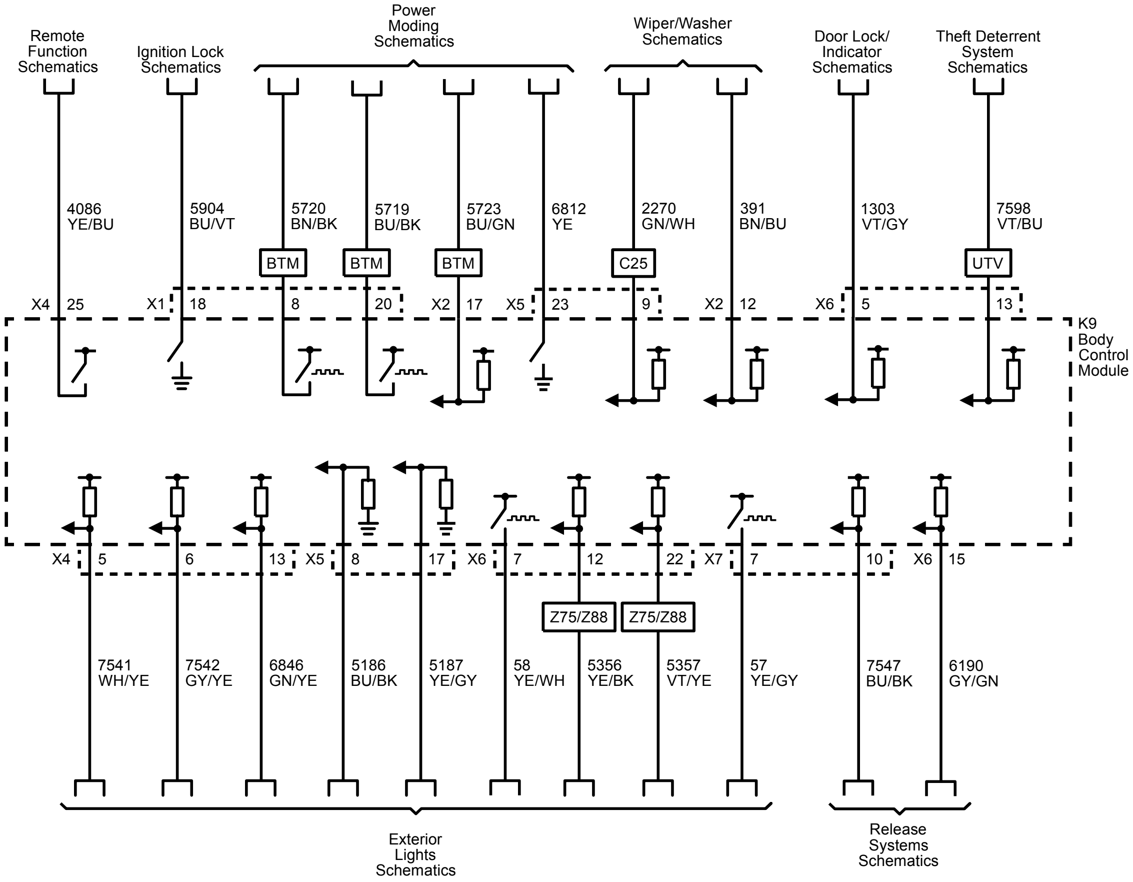

Shift Lock Control Schematics
Power Moding Schematics
Immobilizer Schematics
Starting and Charging Schematics
Power Moding Schematics
Horn Schematics
Automatic Transmission Controls Schematics
Power Moding Schematics
Fog Lights Schematics
Theft Deterrent System Schematics
816 YE/WH
5199 GN/VT
109 BN/GN
5075 WH/YE
5076 BU/VT
5077 BK/VT
300 VT/BN
28 BN/WH
3287 GN/WH
5526 VT/YE
553 BU/GY
3 VT/BK
4 VT/YE
1020 WH/VT
1073 WH/BK
1317 BN/WH
317 YE/VT
187 BU/GY
192 BU/GY
728 GY
T3U
T79
T79
T3U
X7
6
X4
15
24
18
21
X5
6
14
19
X3
18
21
14
6
5
15
22
X5
10
5
X1
12
15
21
5V
IGN
IGN
IGN
5V
+/-
K9 Body Control Module
X7
15
12
18
25
14
11
X6
27
21
6
4
2
X5
16
22
X4
22
12
X2
6
27
12V
25
16
X1
26
X6
17
8
-A31
-A31
-A31
-A31
BTM
KB6
KB6
3265 YE/BN
3269 BN/WH
3268 GY/BK
745 GY
746 GY
748 GY/WH
747 GY
3270 WH/VT
1124 BU/VT
294 BN/YE
3271 GY/GN
3267 VT/YE
45 BU
5985 VT/YE
755 GY/VT
5697 GY
3274 YE/GN
3272 GY/WH
3273 GY
3275 BU/WH
5906 GN/VT
5908 VT/WH
Door Lock/ Indicator Schematics
Exterior Lights Schematics
Power Moding Schematics
Interior Lights Schematics
Remote Function Schematics
Heated/ Cooled Seat Schematics

Subsystem References (2 of 4)


Headlights/ Daytime Running Lights (DRL) Schematics
Trailer Brake Control Schematics
Headlights/ Daytime Running Lights (DRL) Schematics
Exterior Lights Schematics
307 YE/BN
524 WH
306 GN/BN
103 WH/VT
278 WH/BU
3691 WH/BU
3691 WH/BU
7539 BU/BN
1969 BN/VT
312 YE
712 YE
7538 GY/BU
5065 VT/WH
19 BN/GN
18 YE/BU
X3 17
11
X1 11
16
X2 10
20
X7 16
X5 7
18
X4 2
1
7
11
4
X5 1
K9 Body Control Module
5V
X3 16
9
4
12
24
X2 7
13
26
X5 2
26
X1 22
19
X7 8
X4 3
19
X1 10
5737 GY/GN
1884 BN/GN
1444 WH/RD
663 WH/GN
664 VT/BU
526 WH/GN
598 GY/RD
111 GN/WH
1314 BU/WH
38 BU/BN
13 GN/GY
552 BKGN
5996 GY/GN
1315 GN/VT
6844 BU/YE
1134 BU/VT
Cruise Control Schematics
Exterior Lights Schematics
Hydraulic Brake Schematics

Subsystem References (3 of 4)


Interior Lights Dimming Schematics
Interior Lights Schematics
Release Systems Schematics
Antilock Brake System Schematics
44 YE/GY
6817 YE
6817 YE
6816 WH
5005 BK/YE
1688 BU/RD
328 GY/GN
7558 VT/GN
156 GY
6815 WH/BN
7557 WH/YE
157 GY
4047 GN/WH
Z75
1788 BU/VT
6311 WH/BU
X2 9
8
X7 9
X1 5
7
13
5v
14
23
X7 19
3
22
1
X2 18
14
X5 12
K9 Body Control Module
P
B+
12v
X5 24
X3 10
13
20
25
X4 14
16
17
20
X3 1
3
X2 19
15
X7 21
24
13
860 WH/VT
6009 BK/GY
1714 YE/BU
1715 GY
94 WH/BK
2268 BN/GY
91 GY
196 BN/GN
2340 RD/YE
3277 GN/GY
3276 GY/BK
780 BN/YE
781 BN/WH
244 YE/VT
245 BN/VT
1932 GN/WH
Wiper/Washer Schematics
Starting and Charging Schematics
Immobilizer Schematics
Electronic Suspension Control Schematics
Ignition Lock Schematics


Remote Function Schematics
Ignition Lock Schematics
Power Moding Schematics
Wiper/Washer Schematics
Door Lock/ Indicator Schematics
Theft Deterrent System Schematics
4086 YE/BU
5904 BU/VT
5720 BN/BK
5719 BU/BK
5723 BU/GN
6812 YE
2270 GN/WH
391 BN/BU
1303 VT/GY
7598 VT/BU
BTM
BTM
BTM
C25
UTV
X4 25
X1 18
8
20
X2 17
X5 23
9
X2 12
X6 5
13
K9 Body Control Module
X4 5
6
13
X5 8
17
X6 7
12
22
X7 7
10
X6 15
Z75/Z88
Z75/Z88
7541 WH/YE
7542 GY/YE
6846 GN/YE
5186 BU/BK
5187 YE/GY
58 YE/WH
5356 YE/BK
5357 VT/YE
57 YE/GY
7547 BU/BK
6190 GY/GN
Exterior Lights Schematics
Release Systems Schematics

Description and Operation

Body Control System Description and Operation

The body control system consists of the body control module (BCM), communications, and various input and outputs. Some inputs, outputs and messages require other modules to interact with the BCM. The BCM also has discrete input and output terminals to control the vehicle's body functions. The BCM is wired to the high speed GMLAN serial data bus, low speed GMLAN serial data bus and Multiple LIN buses and acts as a gateway between them.

Power Mode Master

This vehicle body control module (BCM) functions as the power mode master (PMM). The ignition switch is a low current switch with multiple discrete ignition switch signals to the PMM for determining the power mode that will be sent over the serial data circuits to the other modules that need this information; the PMM will activate relays and other direct outputs of the PMM as needed. Refer to Power Mode Description and Operation (With BTM)Power Mode Description and Operation (Without BTM) for a complete description of power mode functions.

Gateway

The body control module (BCM) in this vehicle functions as a gateway or translator. The purpose of the gateway is to translate serial data messages between the GMLAN high speed bus and the GMLAN low speed bus for communication between the various modules. The gateway will interact with each network according to that network's transmission protocol.

All communication between the BCM and a scan tool is on the high speed GMLAN serial data circuits. A lost communication DTC typically is set in modules other than the module with a communication failure.

Body Control

The various body control module (BCM) input and output circuits are illustrated in the corresponding functional areas on the BCM electrical schematics. Refer to the Body Control System Schematics for more detailed information.

Data Link Communications Description and Operation

Note: This is an overview of different serial data buses used by GM devices to communicate with each others. Use Data Communication Schematics to find out which serial data buses are configured for a specific vehicle.

Circuit Description

There are many components in a vehicle that rely on information from other sources, transmit information to other sources, or both. Serial data communication networks provide a reliable, cost effective, way for various components of the vehicle to “talk” to one another and share information.

GM uses a number of different communication buses to insure the timely and efficient exchange of information between devices. When compared to each other, some of these buses are different in nature as far as speed, signal characteristics, and behavior. An example of this is the High Speed GMLAN and Low Speed GMLAN buses.

On the other hand, when other buses are compared to each other they have similar characteristics and simply operate in parallel. In this case they are used to group together components which have high interaction. Examples are the High Speed GMLAN, Powertrain Expansion, and Chassis Expansion buses. This allows them to communicate with each other on a bus with reduced message congestion insuring faster and the more timely exchange of information than if all vehicle devices were on a single bus.

The majority of information that exists within a given network generally stays local; however some information will have to be shared on other networks. Control modules designated as Gateway’s perform the function of transferring information between the various buses. A Gateway module is connected to at least 2 buses and will interact with each network according to its message strategy and transmission models.

GMLAN provides the capability for a receiving device to monitor message transmissions from other devices in order to determine if messages of interest are not being received. The primary purpose is to allow reasonable default values to be substituted for the information no longer being received. Additionally, a device may set a Diagnostic Trouble Code to indicate that the device it is expecting information from is no longer communicating.

High Speed GMLAN Circuit Description

A High Speed GMLAN Bus is used where data needs to be exchanged at a high enough rate to minimize the delay between the occurrence of a change in sensor value and the reception of this information by a control device using the information to adjust vehicle system performance.

The High Speed GMLAN serial data network consists of two twisted wires. One signal circuit is identified as GMLAN-High and the other signal circuit is identified as GMLAN-Low. At each end of the data bus there is a 120 Ω termination resistor between the GMLAN-High and GMLAN-Low circuits.

Data symbols (1’s and 0’s) are transmitted sequentially at a rate of 500 Kbit/s. The data to be transmitted over the bus is represented by the voltage difference between the GMLAN-High signal voltage and the GMLAN-Low signal voltage.

When the two wire bus is at rest the GMLAN-High and GMLAN-Low signal circuits are not being driven and this represents a logic “1”. In this state both signal circuits are at the same voltage of 2.5 V. The differential voltage is approximately 0 V.

When a logic “0” is to be transmitted, the GMLAN-High signal circuit is driven higher to about 3.5 V and the GMLAN-Low circuit is driven lower to about 1.5 V. The differential voltage becomes approximately 2.0 (+/- 0.5) V.

Devices on High Speed GMLAN Bus enable or disable communication based on the voltage level of the communication enable circuit. When the circuit voltage is high (around 12 V), communications are enabled. When the circuit is low, communications are disabled.

Chassis High Speed GMLAN Circuit Description

The GMLAN Chassis Expansion Bus is basically a copy of the High Speed GMLAN Bus except that its use is reserved for chassis components. This implementation splits message congestion between two parallel buses helping to insure timely message transmission and reception. Sometimes communication is required between the Chassis Expansion Bus and the primary High Speed GMLAN Bus. This is accomplished by using the K17 Electronic Brake Control Module (EBCM) as the Gateway module. Since the High Speed GMLAN Chassis Expansion Bus and primary High Speed GMLAN Bus operate in the same manner, the diagnostics for each are similar.

Powertrain High Speed GMLAN Circuit Description

The GMLAN Powertrain Expansion Bus is basically a copy of the High Speed GMLAN Bus except that its use is reserved for Powertrain components. The bus is optional based upon feature content. Sometimes communication is required between the Powertrain Expansion Bus and the primary High Speed GMLAN Bus. This is accomplished by using the K20 Engine Control Module (ECM) as the Gateway module. Since the High Speed GMLAN Powertrain Expansion Bus and the primary High Speed GMLAN Bus operate in the same manner, the diagnostics for each are similar.

Object High Speed GMLAN Circuit Description

The GMLAN Object Bus is basically a copy of the High Speed GMLAN Bus except that its use is reserved for the enhanced safety system. This implementation is used to isolate the heavy communication among the enhanced safety system devices from the other vehicle buses, reducing congestion. The K124 Active Safety Control Module is connected to the Object Bus as well as the Primary High Speed GMLAN Bus, the Chassis Expansion Bus, and the Low Speed GMLAN Bus. The K124 Active Safety Control Module acts as a Gateway module for all required communication between the Object Bus devices and devices on these other vehicle buses. The GMLAN Object Bus operates in the same manner as the Chassis Expansion and Primary High Speed buses and so the diagnostics are similar. The Object Bus is physically partitioned into a Front Object Bus and a Rear Object Bus with each partition having its own communication enable circuit to activate the partition, but functional operation of both is identical. The Front Object Bus standard devices are the K124 Active Safety Control Module, the K109 Frontview Camera Module, and the B233B Radar Sensor Module – Long Range. The Front Object Bus optional devices are the B233LF Radar Sensor Module – Short Range Left Front and the B233RF Radar Sensor Module – Short Range Right Front. The Rear Object Bus is optional and when present will have the K124 Active Safety Control Module, B233LR Radar Sensor Module – Short Range Left Rear, and B233RR Radar Sensor Module – Short Range Right Rear on the bus. All Object Bus components are powered by the K124 Active Safety Control Module via the communication enable circuits, except the K109 Frontview Camera Module which is powered directly by battery.

Media Oriented Systems Transport (MOST) Circuit Description

The MOST Infotainment network is a dedicated high speed multimedia streaming data bus independent from GMLAN. The MOST bus will be configured in a physical hardwired loop with each device within the bus sends and receives data on an assigned MOST addresses in a set order. Each device on the MOST bus will be required to have twisted pair copper wires (2 transmit TX, 2 receive RX, and 1 electronic control line which is a 12 V wakeup signal line). The A11 Radio is the MOST Master and will monitor the bus for vehicle configuration, Infotainment data messages and errors on the bus. The MOST initialization consists of a short 100 ms low voltage pulse on the electronic control line (or MOST control line) connected to all devices contained on the MOST ring. This wakeup message once received by each device, will first respond with a generic device response. Once these initial responses on the MOST bus are reported successfully without error to the A11 Radio, the next responses will report the MOST device addresses, their functionality requirements and capabilities within. The A11 Radio will learn this information and also record the address node sequence on the MOST bus at this point. This node address list will now be stored within the A11 Radio as the MOST bus configuration (called “Last Working MOST ID of Node 1 – 9” on scan tool data display).

When MOST receive, transmit, or control line faults are detected, transmit/receive messages will not be received as expected from the wakeup request. The A11 Radio and the K74 Human Machine Interface Control Module will then perform diagnostics to isolate these MOST faults. If the MOST control line is shorted low to 0 V for excess amount of time, the A11 Radio will set a U2098 DTC and K74 Human Machine Interface Control Module will set a U0029 02 DTC. At this point the MOST bus will be unable to communicate until the shorted MOST control line is repaired.

Once the shorted MOST control line diagnostics pass, the A11 Radio will attempt to resend the initial short pulse attempts up to 3 times on the MOST control line. If the expected responses are not received, the A11 Radio continues into a failure mode setting a U0028 DTC and will continue on to send 300 ms long pulses while DTC U0028 is current, which will enable the furthest upstream transmitting device to become the surrogate MOST Master in this MOST fault/diagnostic mode. When the A11 Radio receives this new MOST Master identity, the surrogate MOST master device can be identified based on scan tool data parameter “Surrogate MOST Master Node Upstream Position”. The scan tool and schematics will be used to determine the MOST bus configuration and direction by utilizing the “Last Working MOST ID of Node 1 – 9” parameters from the A11 Radio data display. When a fault is present, it will indicate the newly enabled “Surrogate MOST Master Node Upstream Position” to the A11 Radio. This will assist in determining the location of the MOST device/bus/control fault. The MOST device and circuits upstream from the surrogate MOST master device, transmit, receive, or control lines will be the suspect areas for diagnostics at this point. These faults can be associated with any of the MOST transmit, receive, or control line twisted copper wires or possibly an internal device fault.

The K74 Human Machine Interface Control Module will set a U0029 00 DTC when it diagnoses a MOST bus not communicating properly after one attempt. When the DTC U0029 00 is set by the K74 Human Machine Interface Control Module without the corresponding DTC U0028 from the A11 Radio, it will be an indication of an intermittent wiring/device condition.

Low Speed GMLAN Circuit Description

Low Speed GMLAN Bus is used in applications where a high data rate is not required which allows for the use of less complex components. It is typically used for operator controlled functions where the response time requirements are slower than those required for dynamic vehicle control.

The Low Speed GMLAN Serial Data Network consists of a single wire, ground referenced bus with high side voltage drive. During on road vehicle operation data symbols (1’s and 0’s) are transmitted sequentially at the normal rate of 33.3 Kbit/s. For component programming only, a special high speed data mode of 83.3 Kbit/s may be used.

Unlike the high speed dual wire networks, the single wire low speed network does not use terminating resistors at either end of the network.

The data symbols to be transmitted over the bus are represented by different voltage signals on the bus. When the Low Speed GMLAN Bus is at rest and is not being driven, there is a low signal voltage of approximately 0.2 V. This represents a logic “1”. When a logic “0” is to be transmitted, the signal voltage is driven higher to around 4.0 V or higher.

Local Interconnect Network (LIN) Circuit Description

The Local Interconnect Network (LIN) Bus consists of a single wire with a transmission rate of 10.417 Kbit/s. This bus is used to exchange information between a master control module and other smart devices which provide supporting functionality. This type of configuration does not require the capacity or speed of either a High Speed GMLAN Bus or Low Speed GMLAN Bus and is thus relatively simpler.

The data symbols (1’s and 0’s) to be transmitted are represented by different voltage levels on the communication bus. When the LIN Bus is at rest and is not being driven, the signal is in a high voltage state of approximately Vbatt. This represents a logic “1”. When a logic “0” is to be transmitted, the signal voltage is driven low to about ground (0.0 V).

Data Link Connector (DLC)

The X84 Data Link Connector (DLC) is a standardized 16-cavity connector. Connector design and location is dictated by an industry wide standard, and is required to provide the following:

- Terminal 1 Low speed GMLAN communications terminal
- Terminal 3 Object high speed GMLAN serial bus (+) terminal
- Terminal 4 Scan tool power ground terminal
- Terminal 5 Common signal ground terminal
- Terminal 6 High speed GMLAN serial data bus (+) terminal
- Terminal 11 Object high speed GMLAN serial bus (-) terminal
- Terminal 12 Chassis high speed GMLAN serial bus (+) terminal
- Terminal 13 Chassis high speed GMLAN serial bus (-) terminal
- Terminal 14 High speed GMLAN serial data bus (-) terminal
- Terminal 16 Scan tool power, battery positive voltage terminal

Serial Data Reference

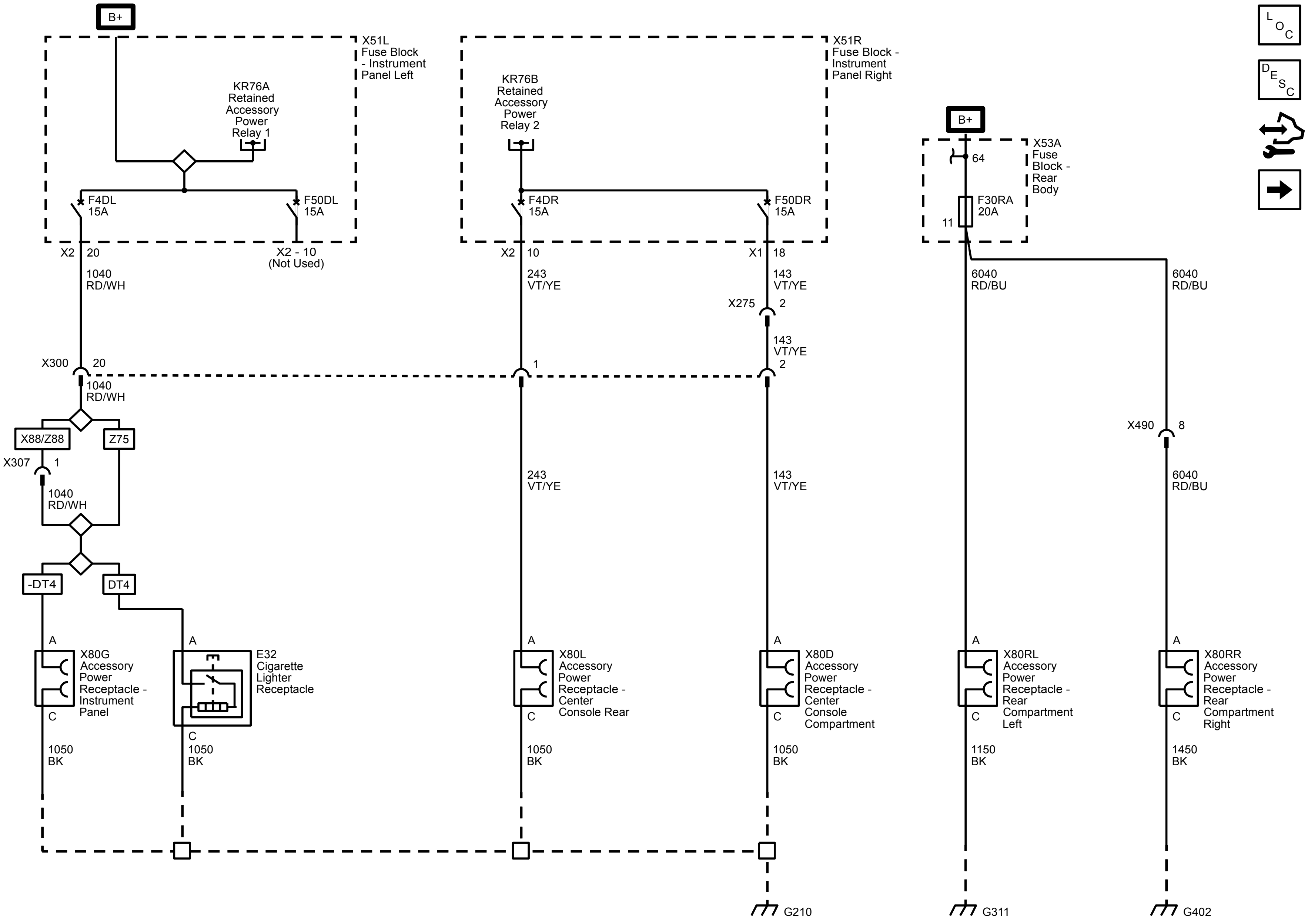
The scan tool communicates over the various buses on the vehicle. When a scan tool is installed on a vehicle, the scan tool will try to communicate with every device that could be optioned into the vehicle. If an option is not installed on the vehicle, the scan tool will display No Comm (or Not Connected) for that optional device. In order to avert misdiagnoses of No Communication with a specific device, refer to CELL Link Error - Link target cell (cell ID 148085) is invalid for this publication. for a list of devices, the buses they communicate with, and the RPO codes for a specific device.

Power Outlets

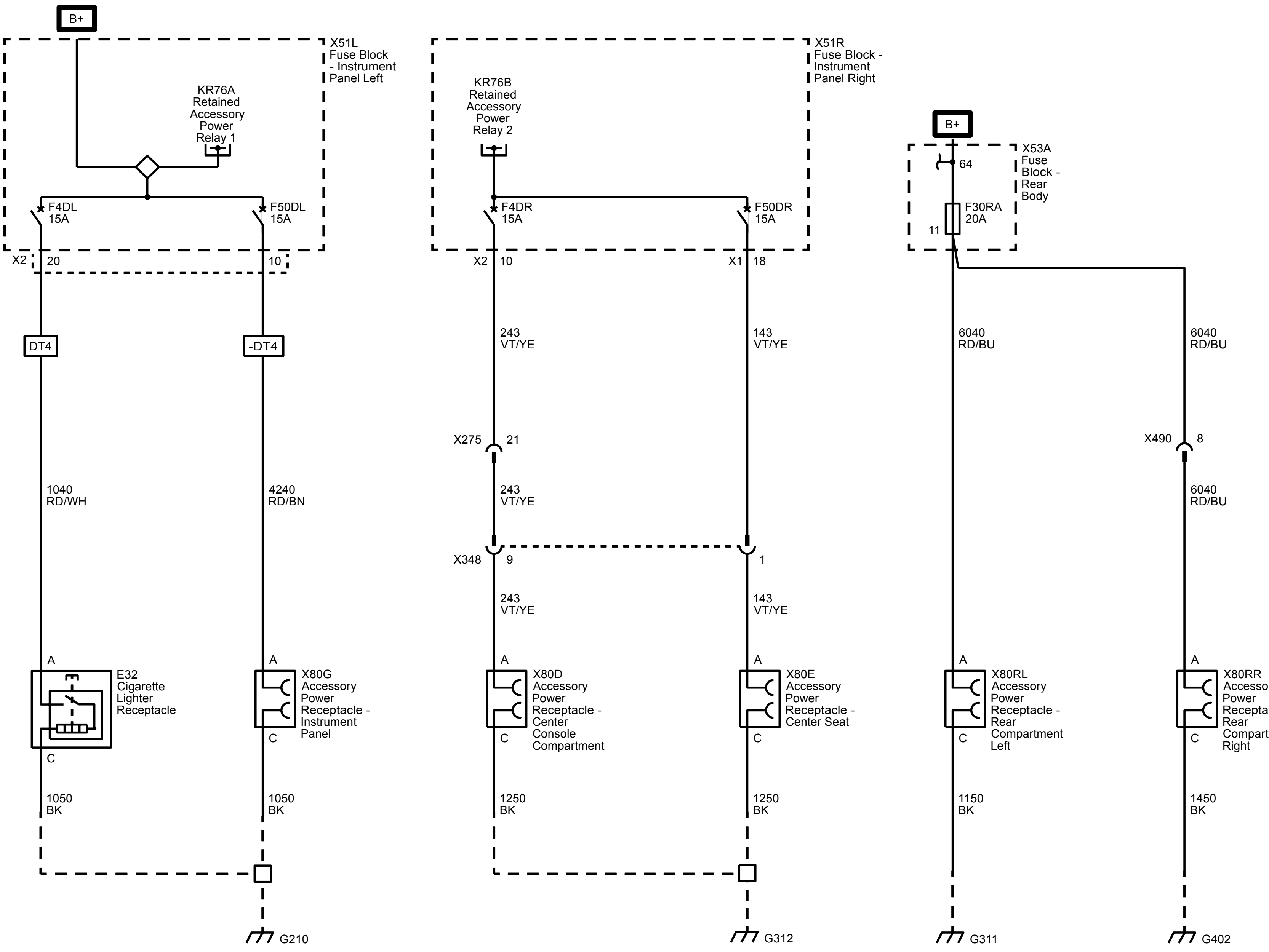
Schematic and Routing Diagrams

Cigar Lighter/Power Outlet Schematics

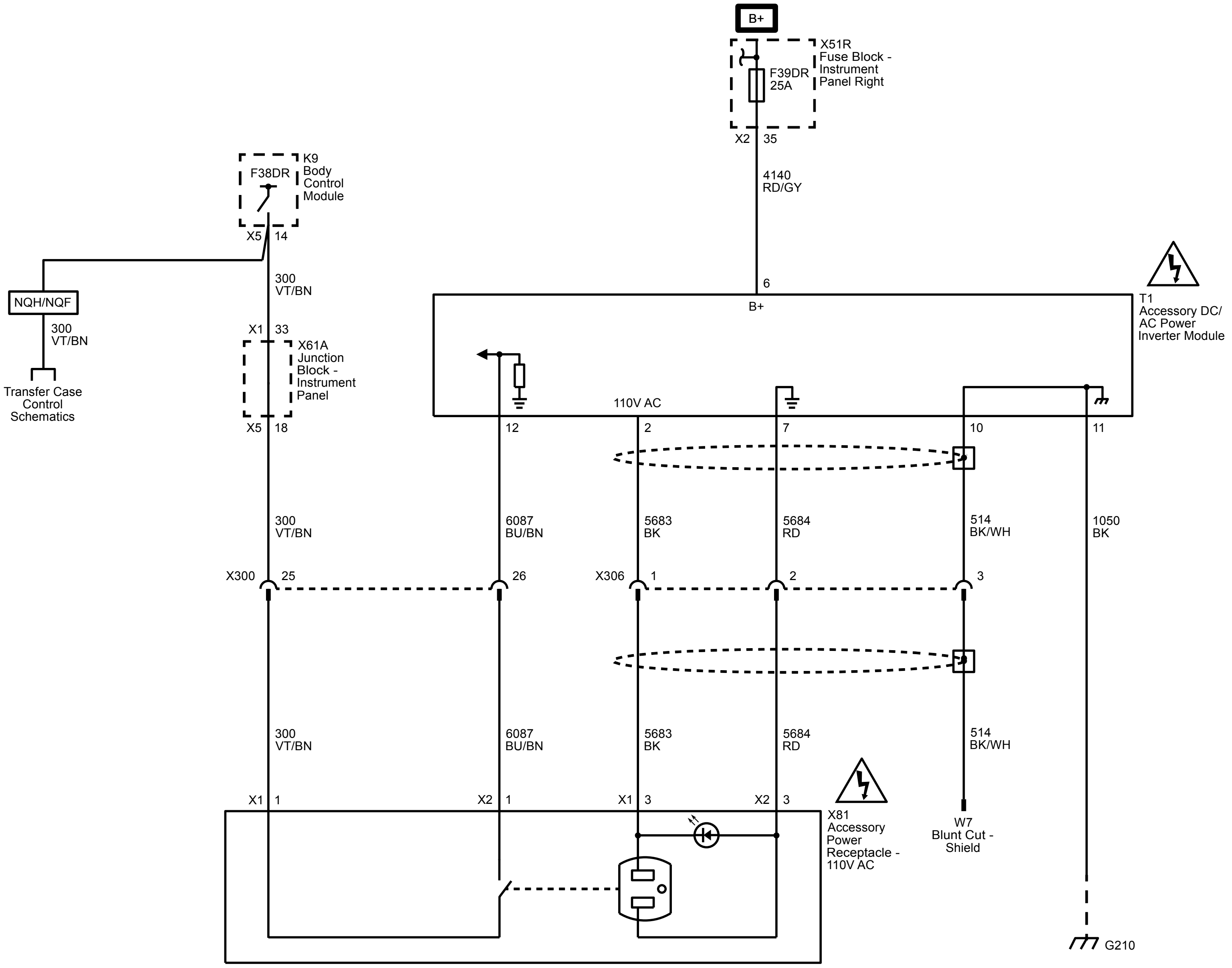
12-Volt DC Power Outlets (D07)


B+
X51L Fuse Block - Instrument Panel Left
KR76A Retained Accessory Power Relay 1
F4DL 15A
F50DL 15A
X2 20
X2 - 10 (Not Used)
1040 RD/WH
X51R Fuse Block - Instrument Panel Right
KR76B Retained Accessory Power Relay 2
F4DR 15A
F50DR 15A
X2 10
X1 18
243 VT/YE
143 VT/YE
X275 2
143 VT/YE 2
X300 20
1
1040 RD/WH
X88/Z88
Z75
X307 1
1040 RD/WH
-DT4
DT4
B+
X53A Fuse Block - Rear Body
64
F30RA 20A
11
6040 RD/BU
6040 RD/BU
X490 8
6040 RD/BU
243 VT/YE
143 VT/YE
A
X80G Accessory Power Receptacle - Instrument Panel
C
1050 BK
A
E32 Cigarette Lighter Receptacle
C
1050 BK
A
X80L Accessory Power Receptacle - Center Console Rear
C
1050 BK
A
X80D Accessory Power Receptacle - Center Console Compartment
C
1050 BK
A
X80RL Accessory Power Receptacle - Rear Compartment Left
C
1150 BK
A
X80RR Accessory Power Receptacle - Rear Compartment Right
C
1450 BK
G210
G311
G402
LOC
DESC

12-Volt DC Power Outlets (AZ3)

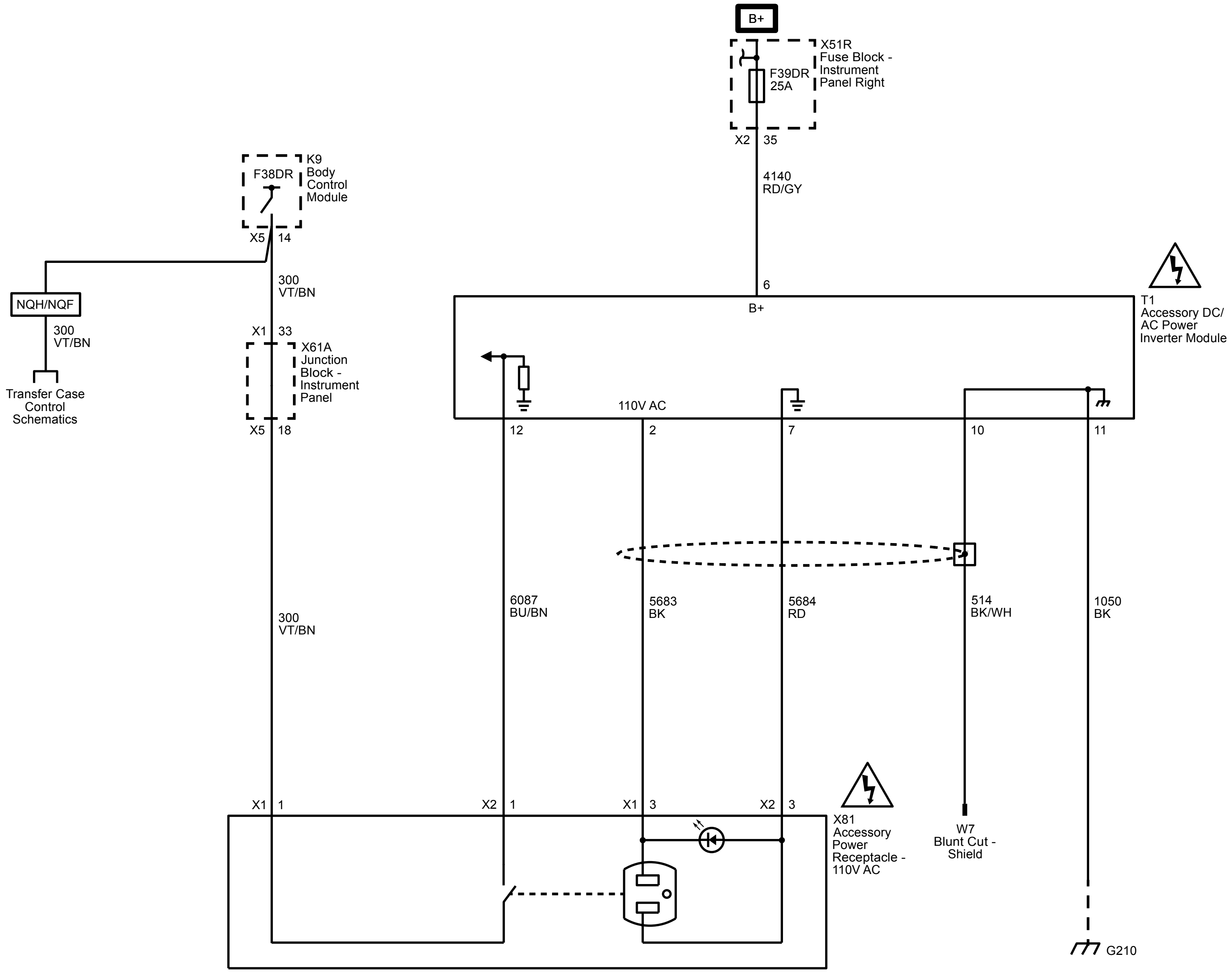

B+
X51L
Fuse Block
- Instrument
Panel Left
KR76A
Retained
Accessory
Power
Relay 1
F4DL
15A
F50DL
15A
X2
20
10
DT4
-DT4
1040
RD/WH
4240
RD/BN
A
E32
Cigarette
Lighter
Receptacle
C
1050
BK
A
X80G
Accessory
Power
Receptacle -
Instrument
Panel
C
1050
BK
G210
X51R
Fuse Block -
Instrument
Panel Right
KR76B
Retained
Accessory
Power
Relay 2
F4DR
15A
F50DR
15A
X2
10
X1
18
243
VT/YE
143
VT/YE
X275
21
243
VT/YE
X348
9
1
243
VT/YE
143
VT/YE
A
X80D
Accessory
Power
Receptacle -
Center
Console
Compartment
C
1250
BK
A
X80E
Accessory
Power
Receptacle -
Center Seat
C
1250
BK
G312
B+
64
X53A
Fuse
Block -
Rear
Body
F30RA
20A
11
6040
RD/BU
6040
RD/BU
X490
8
6040
RD/BU
A
X80RL
Accessory
Power
Receptacle -
Rear
Compartment
Left
C
1150
BK
G311
A
X80RR
Accessory
Power
Receptacle -
Rear
Compartment
Right
C
1450
BK
G402

110-Volt AC Power Outlet (KI4 with D07)

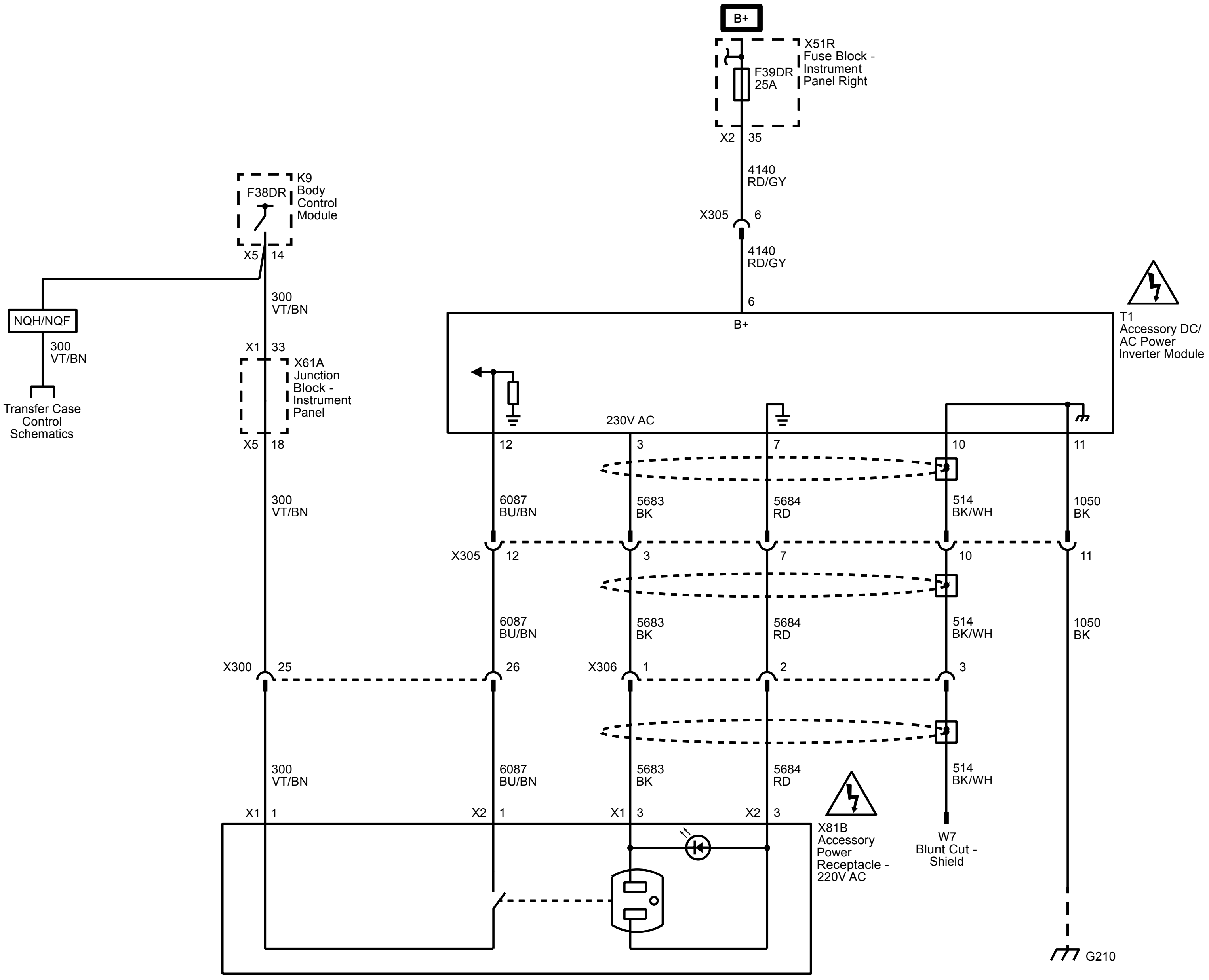


B+
X51R
Fuse Block - Instrument Panel Right
F39DR
25A
X2
35
4140
RD/GY
K9
Body Control Module
F38DR
X5
14
300
VT/BN
NQH/NQF
300
VT/BN
Transfer Case Control Schematics
X1
33
X61A
Junction Block - Instrument Panel
X5
18
6
B+
T1
Accessory DC/AC Power Inverter Module
110V AC
12
2
7
10
11
300
VT/BN
6087
BU/BN
5683
BK
5684
RD
514
BK/WH
1050
BK
X300
25
26
X306
1
2
3
300
VT/BN
6087
BU/BN
5683
BK
5684
RD
514
BK/WH
X1
1
X2
1
X1
3
X2
3
X81
Accessory Power Receptacle - 110V AC
W7
Blunt Cut - Shield
G210

110-Volt AC Power Outlet (KI4 with AZ3)


B+
X51R
Fuse Block - Instrument Panel Right
F39DR
25A
X2
35
4140
RD/GY
K9
Body Control Module
F38DR
X5
14
300
VT/BN
NQH/NQF
300
VT/BN
Transfer Case Control Schematics
X1
33
X61A
Junction Block - Instrument Panel
X5
18
6
B+
T1
Accessory DC/AC Power Inverter Module
110V AC
12
2
7
10
11
300
VT/BN
6087
BU/BN
5683
BK
5684
RD
514
BK/WH
1050
BK
X1
1
X2
1
X1
3
X2
3
X81
Accessory Power Receptacle - 110V AC
W7
Blunt Cut - Shield
G210

220-Volt Power Outlet (KI5 with D07)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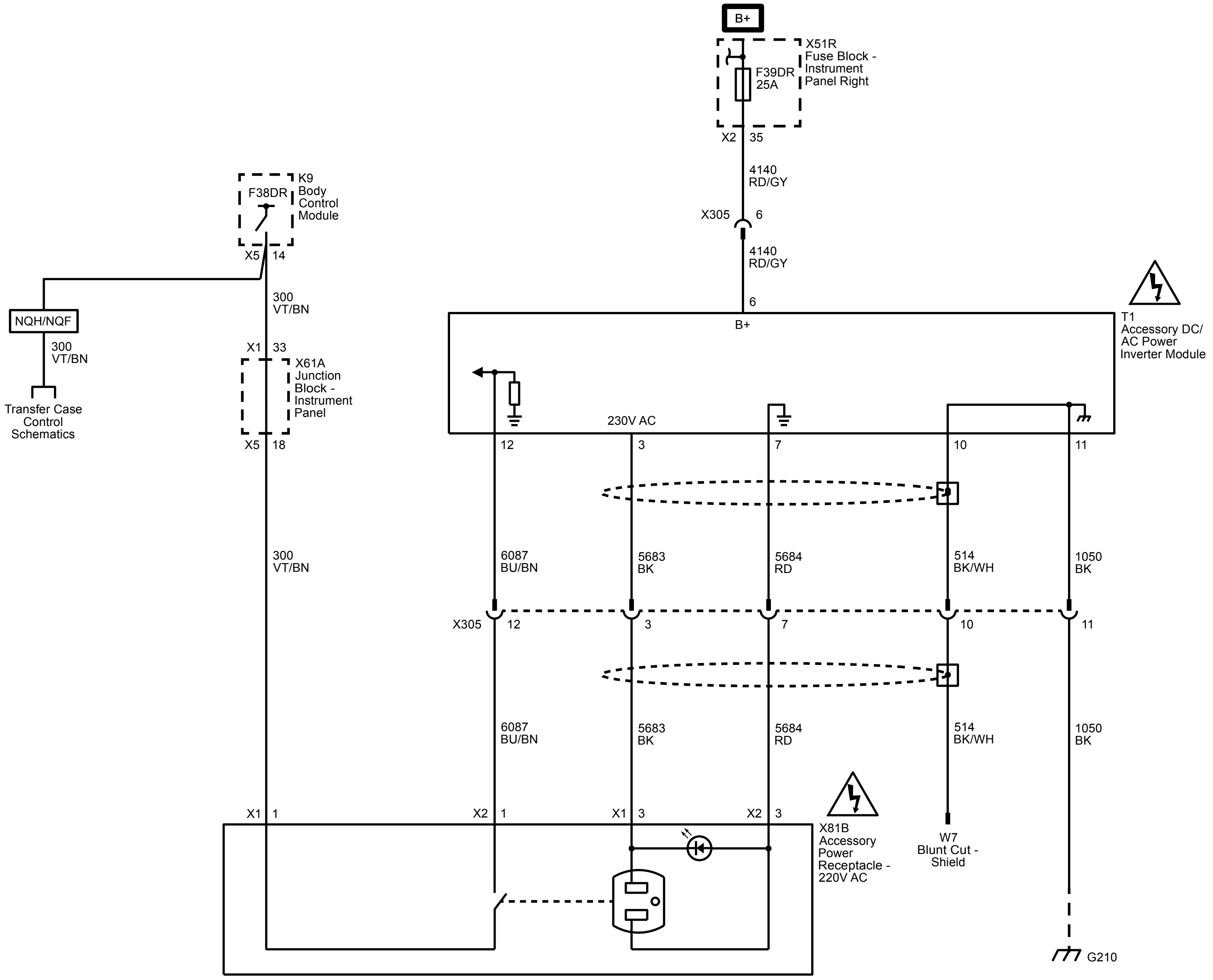
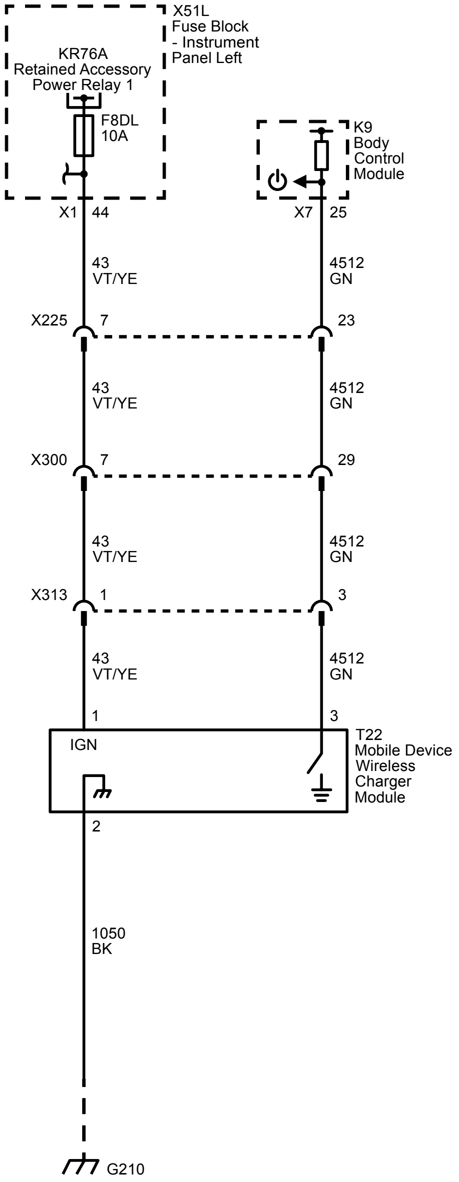
X51R
Fuse Block - Instrument Panel Right
F39DR
25A
X2
35
4140
RD/GY
X305
6
4140
RD/GY
6
B+
T1
Accessory DC/ AC Power Inverter Module
K9
Body Control Module
F38DR
X5
14
NQH/NQF
300
VT/BN
Transfer Case Control Schematics
300
VT/BN
X1
33
X61A
Junction Block - Instrument Panel
X5
18
300
VT/BN
230V AC
12
3
7
10
11
6087
BU/BN
5683
BK
5684
RD
514
BK/WH
1050
BK
X305
12
3
7
10
11
6087
BU/BN
5683
BK
5684
RD
514
BK/WH
1050
BK
X300
25
26
X306
1
2
3
300
VT/BN
6087
BU/BN
5683
BK
5684
RD
514
BK/WH
X1
1
X2
1
X1
3
X2
3
X81B
Accessory Power Receptacle - 220V AC
W7
Blunt Cut - Shield
G210

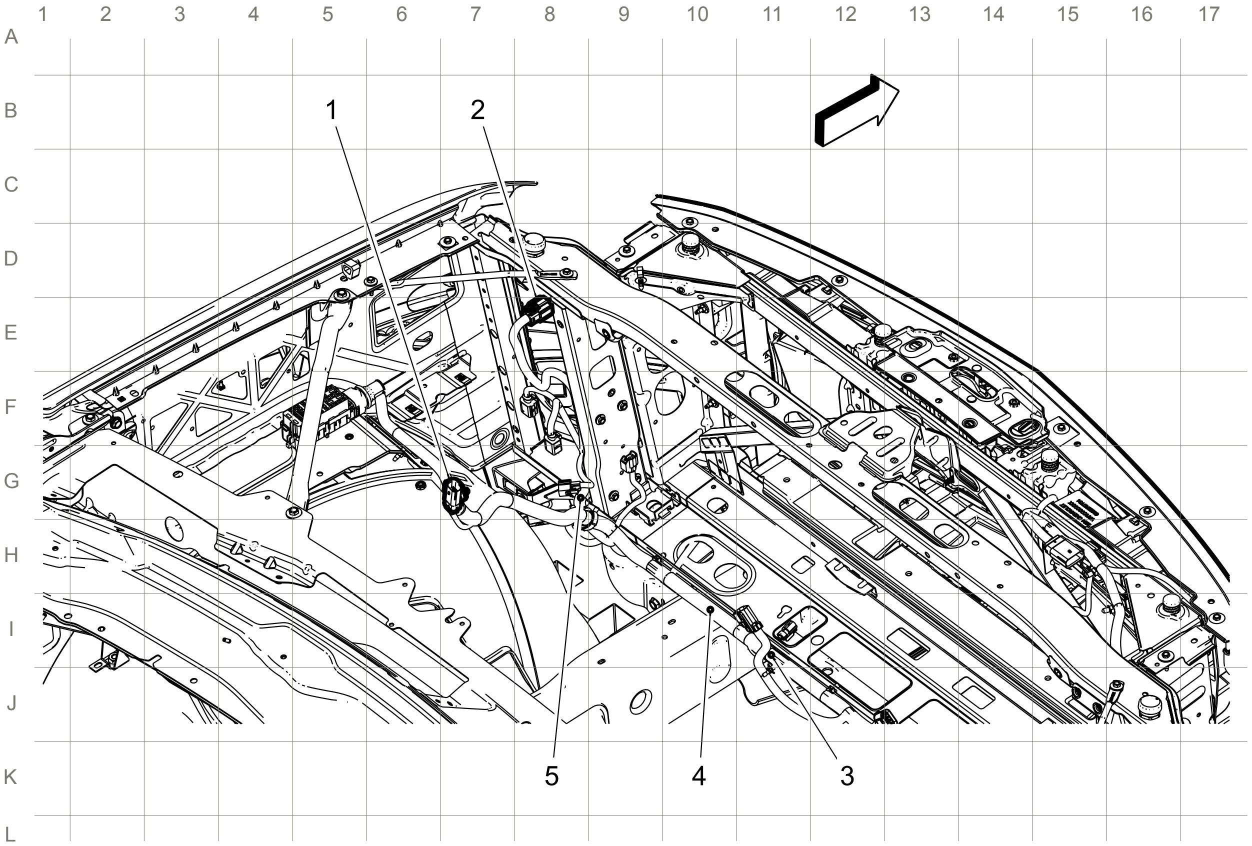
220-Volt Power Outlet (KI5 with AZ3)


B+
X51R
Fuse Block -
Instrument
Panel Right
F39DR
25A
X2 35
4140
RD/GY
X305 6
4140
RD/GY
6
B+
K9
Body
Control
Module
F38DR
X5 14
300
VT/BN
NQH/NQF
300
VT/BN
Transfer Case
Control
Schematics
X1 33
X61A
Junction
Block -
Instrument
Panel
X5 18
T1
Accessory DC/
AC Power
Inverter Module
230V AC
12
3
7
10
11
300
VT/BN
6087
BU/BN
5683
BK
5684
RD
514
BK/WH
1050
BK
X305 12
3
7
10
11
6087
BU/BN
5683
BK
5684
RD
514
BK/WH
1050
BK
X1 1
X2 1
X1 3
X2 3
X81B
Accessory
Power
Receptacle -
220V AC
W7
Blunt Cut -
Shield
G210

Wireless Charging (K4C)


X51L
Fuse Block
- Instrument
Panel Left
KR76A
Retained Accessory
Power Relay 1
F8DL
10A
K9
Body
Control
Module
X1
44
X7
25
43
VT/YE
4512
GN
X225
7
23
43
VT/YE
4512
GN
X300
7
29
43
VT/YE
4512
GN
X313
1
3
43
VT/YE
4512
GN
1
3
IGN
T22
Mobile Device
Wireless
Charger
Module
2
1050
BK
G210

Forward Lamp Harness Routing - Left Engine Compartment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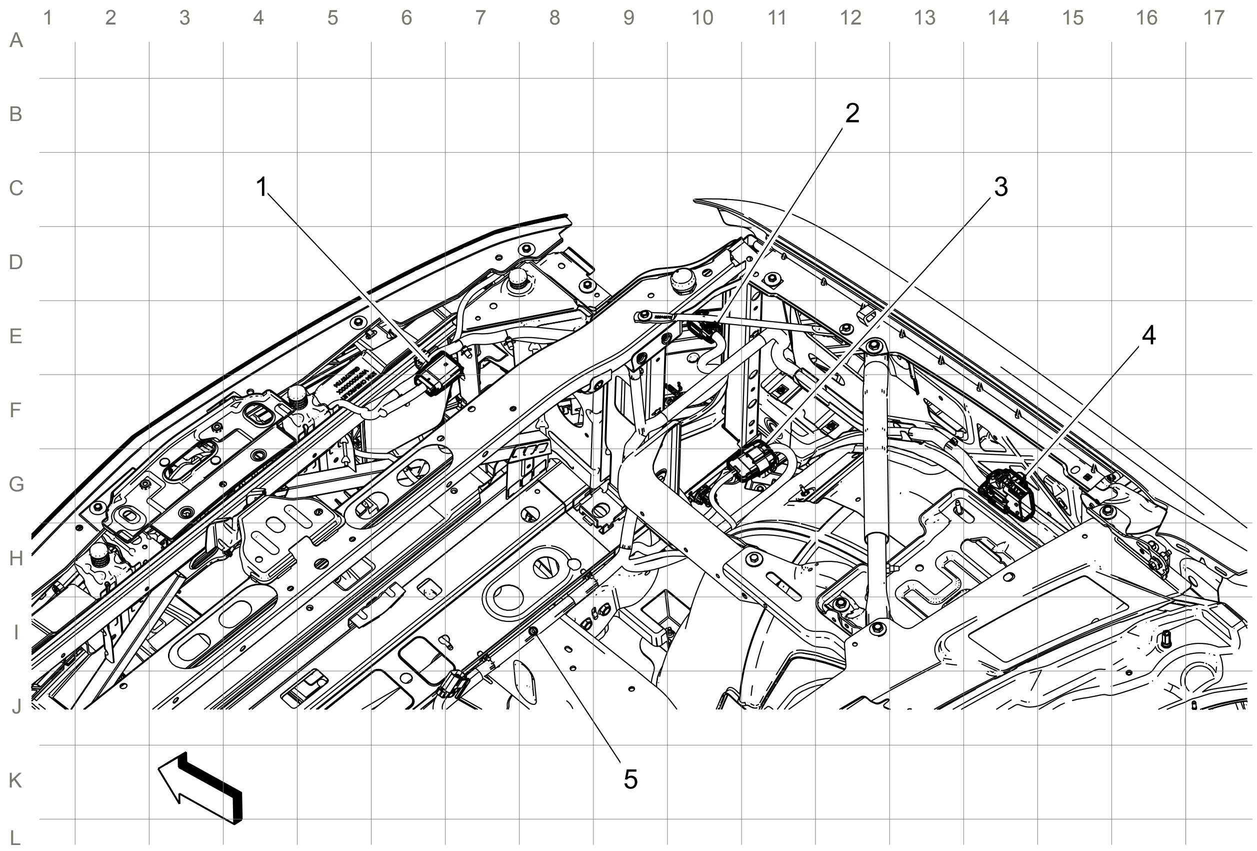
Items

1. X139
2. X110
3. J130
4. J106 (UGN with Z75)
5. J115

Forward Lamp Harness Routing - Right Engine Compartment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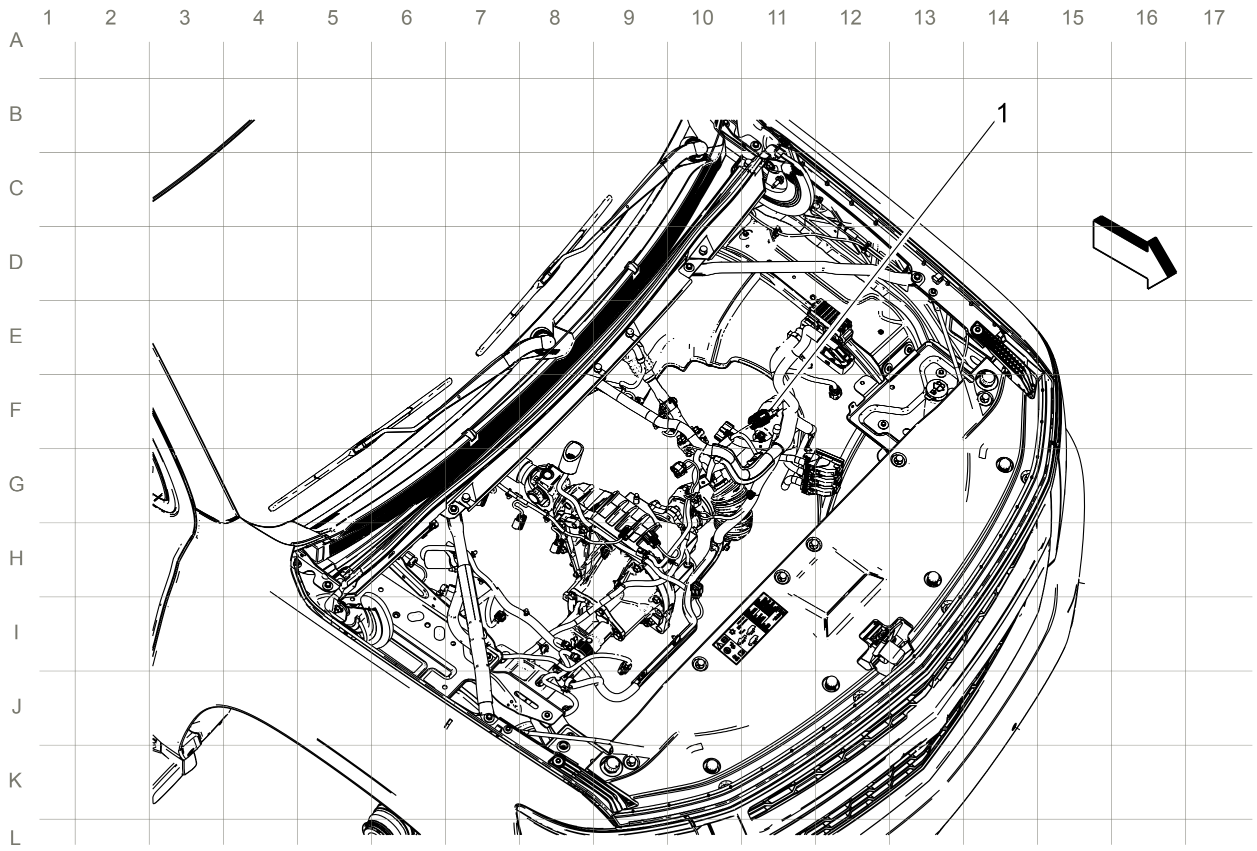
Items

1. X100
2. X120
3. X122 (6J7)
4. X150
5. J125

Front Axle Harness Routing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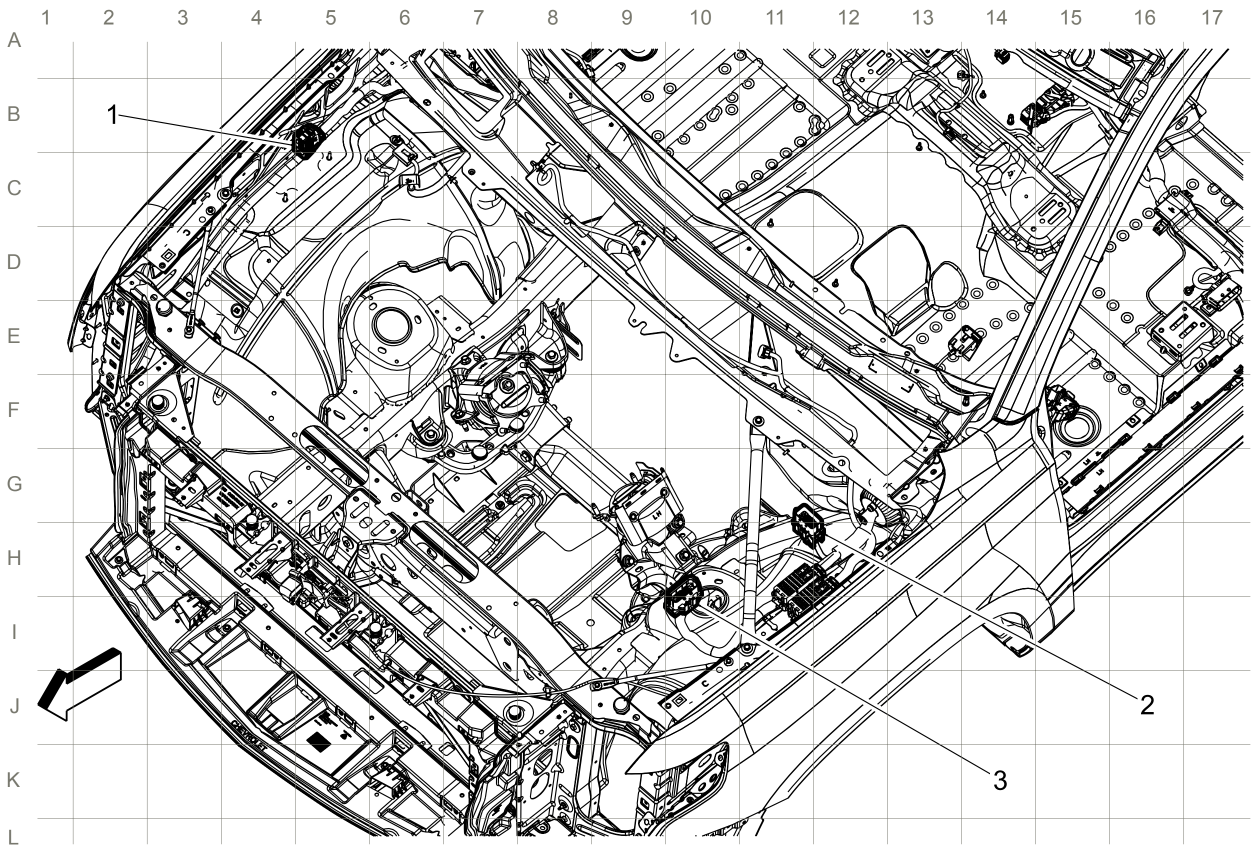
Items

1. X111

Body Harness Routing - Engine Compartment Top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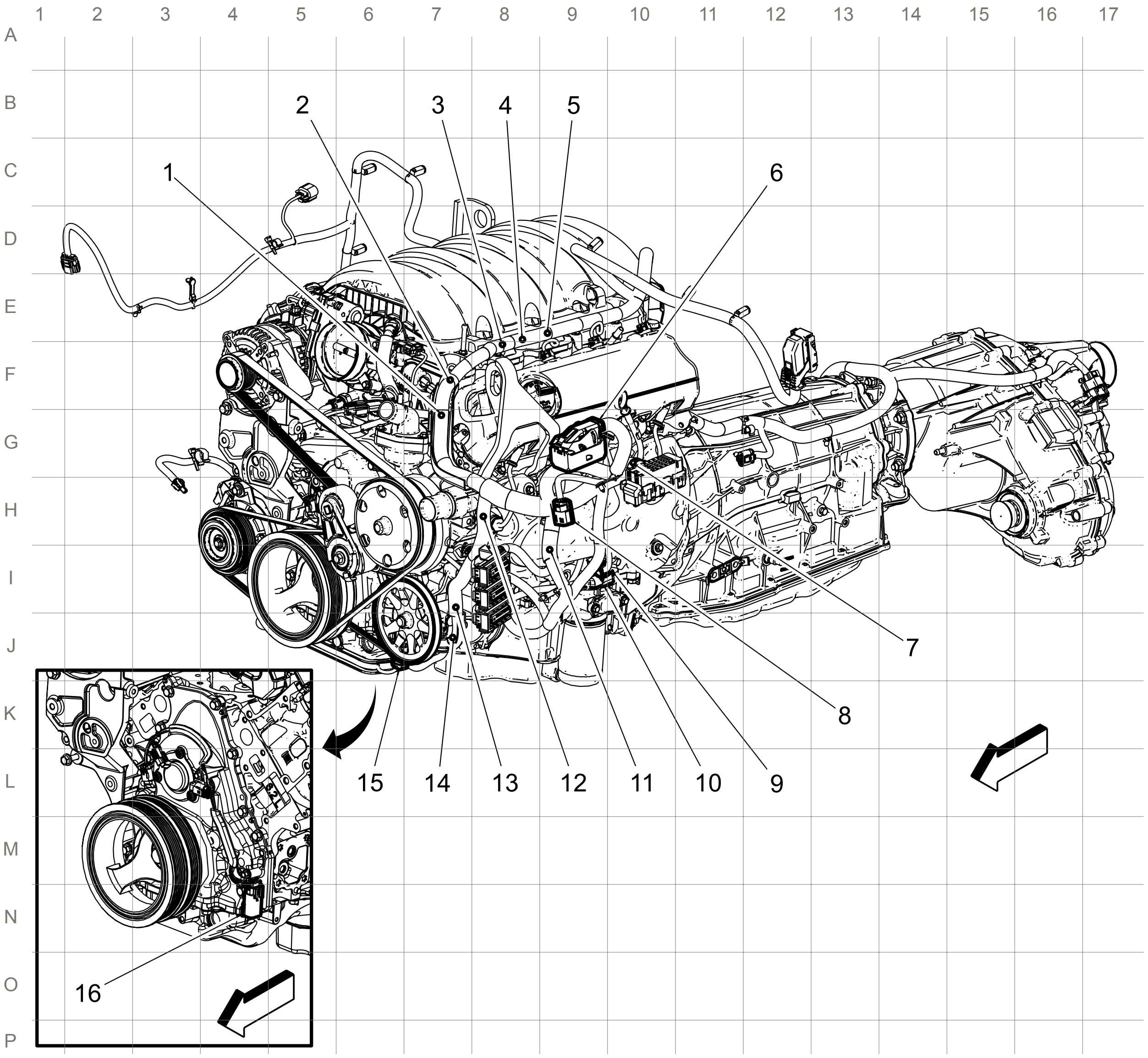
Items

1. X150
2. X185
3. X115

Engine Harness Routing - Left Front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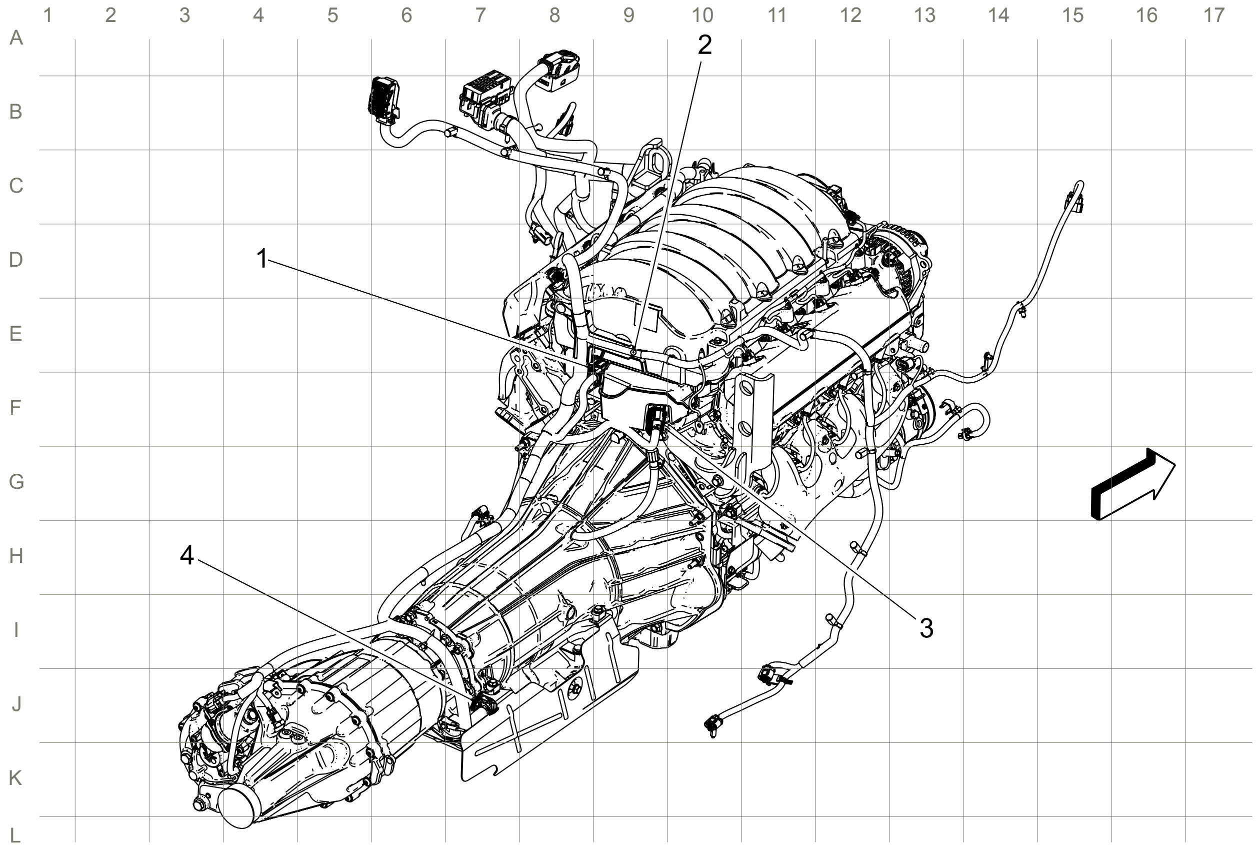
Items

1. J126
2. J163
3. J152 (K59)
4. J153 (K59)
5. J161
6. X115
7. J165
8. X139
9. X125
10. X131
11. J125

11. J125
12. J124
13. J150 (K59)
14. J151 (K59)
15. X159
16. X112

Engine Harness Routing - Right Rear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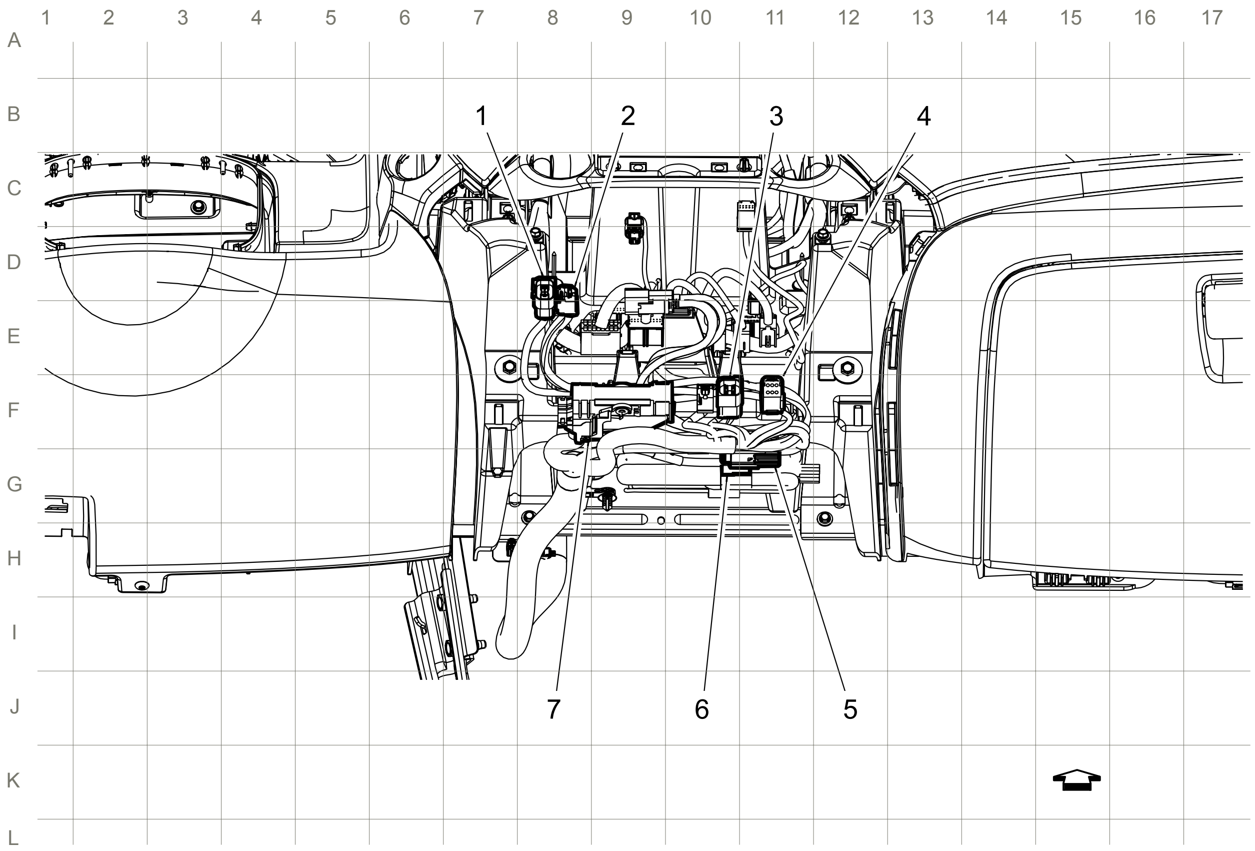
Items

1. X161
2. J161
3. X160
4. X175 (M5U)

Instrument Panel Harness Routing - Bottom Center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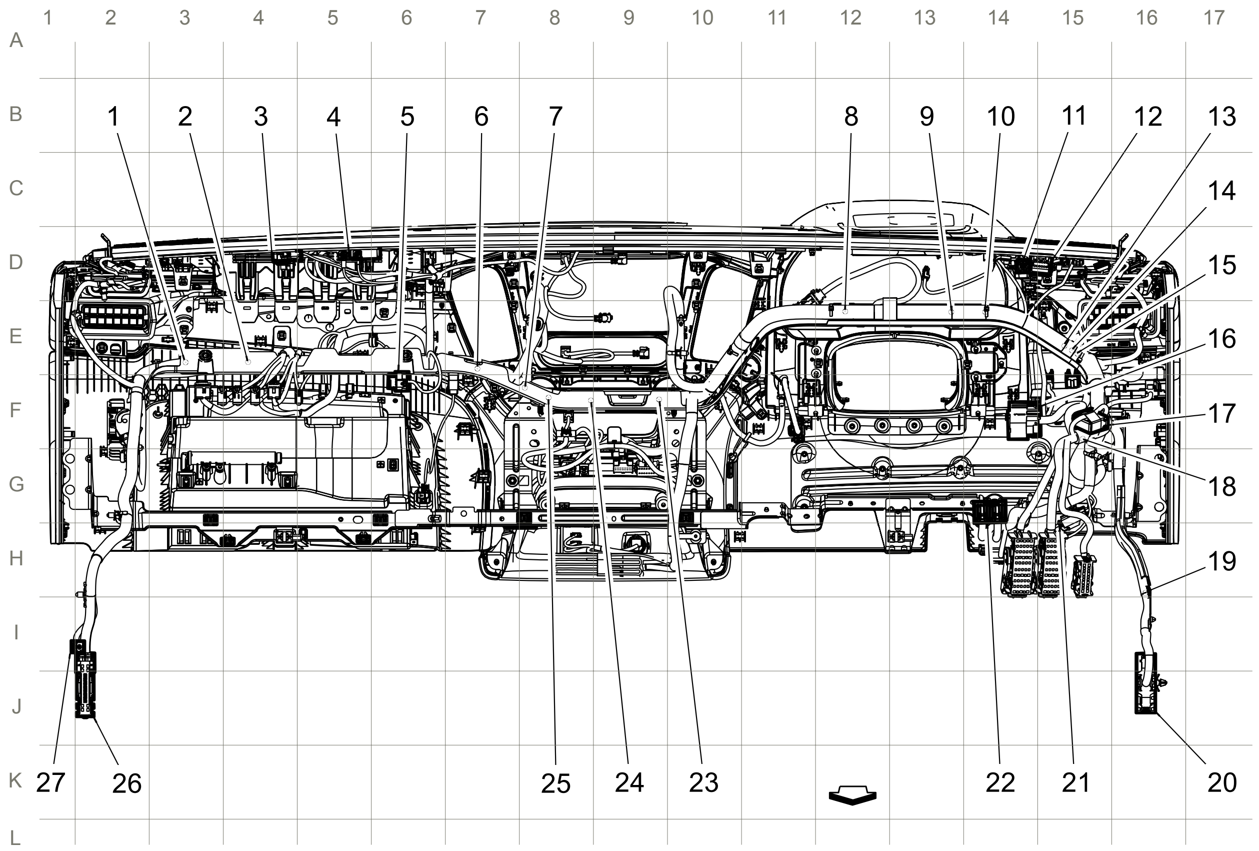
Items

1. X203
2. X204 (U42 or DNU)
3. X304 (AZ3)
4. X306 (KI4 or KI5 with D07)
5. X271 (5W4 or 9C1)
6. X272 (6J3 or 6J7)
7. X300 (D07)

Instrument Panel Harness Routing - Rear of Instrument Panel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Items

1. J243
2. J242
3. X222 (U2M with UE1)
4. X215
5. X205
6. J250 (IO5 or IO6 or TG5)
7. J260 (IO5 or IO6 with UE1, UEU or UFL)
8. J212 (Z75)
9. J211
10. J205
11. X204 (U42 or DNU)
12. X203
13. J201
14. J200
15. J210

16. X201

17. JX200

18. J208

19. J208

20. X225

21. J294

22. X399

23. J220

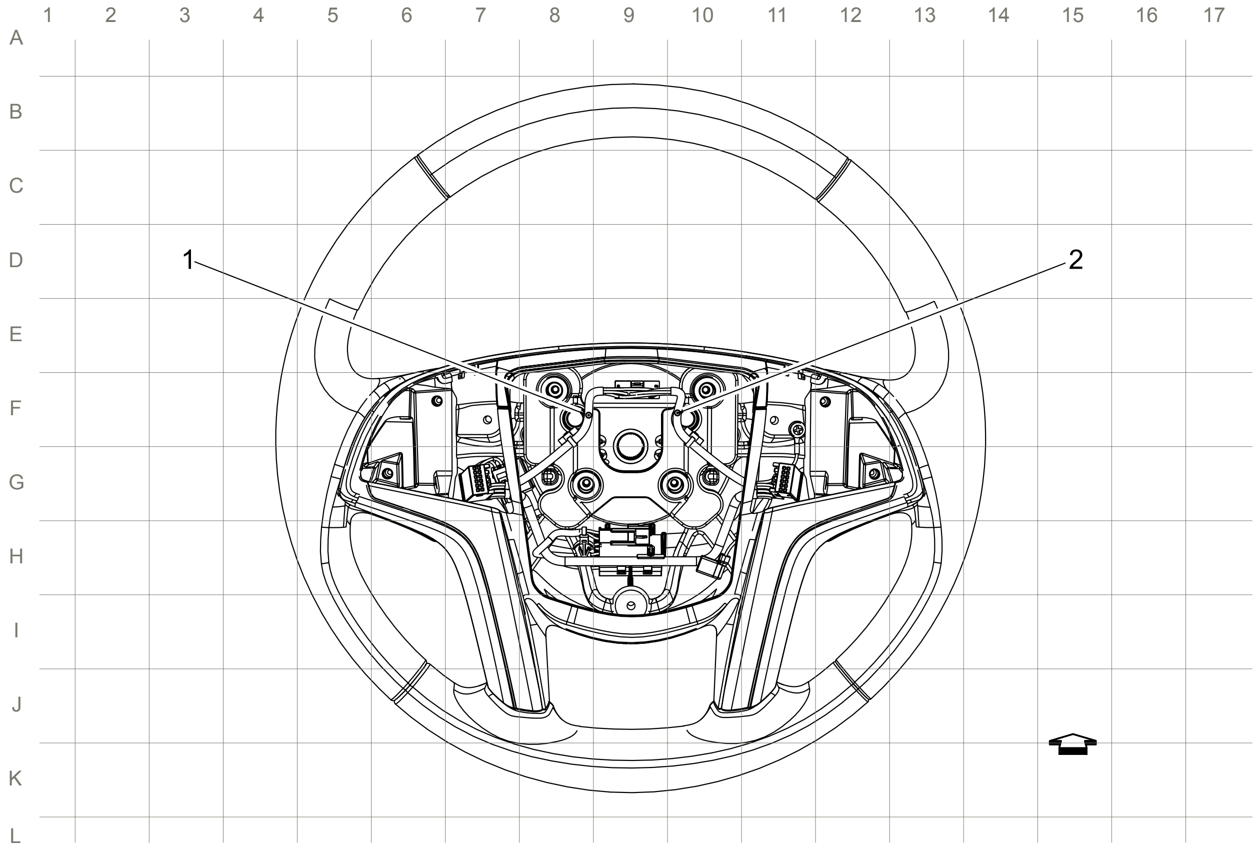
24. J249

25. J251

26. X275

27. X301

Steering Wheel Harness Routing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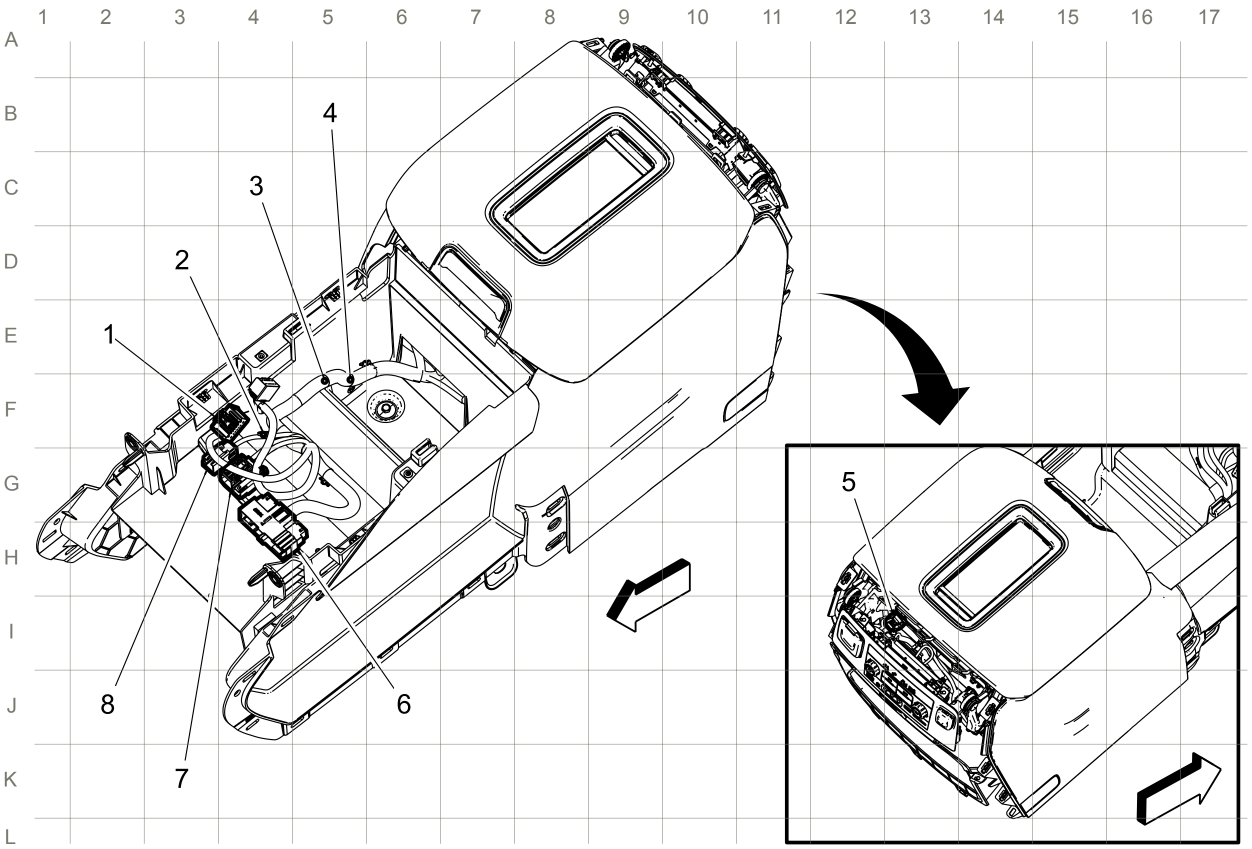
Items

1. J285

2. J295

Floor Console Harness Routing - Top (X88 or Z88)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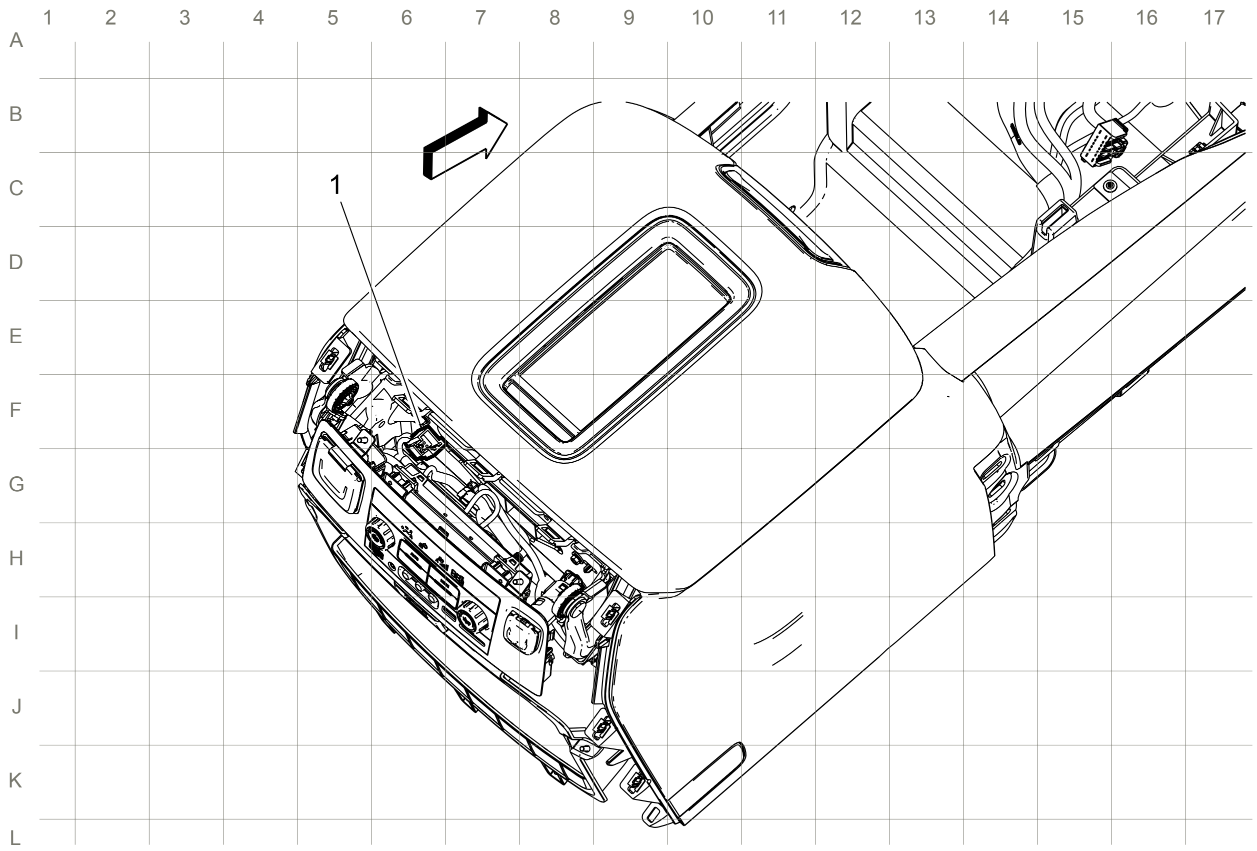
Items

1. X307 (X88 or Z88)
2. J341
3. J339 (D07 with DCK or K4C)
4. J340
5. X313 (DCK)
6. X300 (D07)
7. X304 (AZ3)
8. X306 (KI4 or KI5 with D07)

Floor Console Harness Routing - Rear (X88 or Z88)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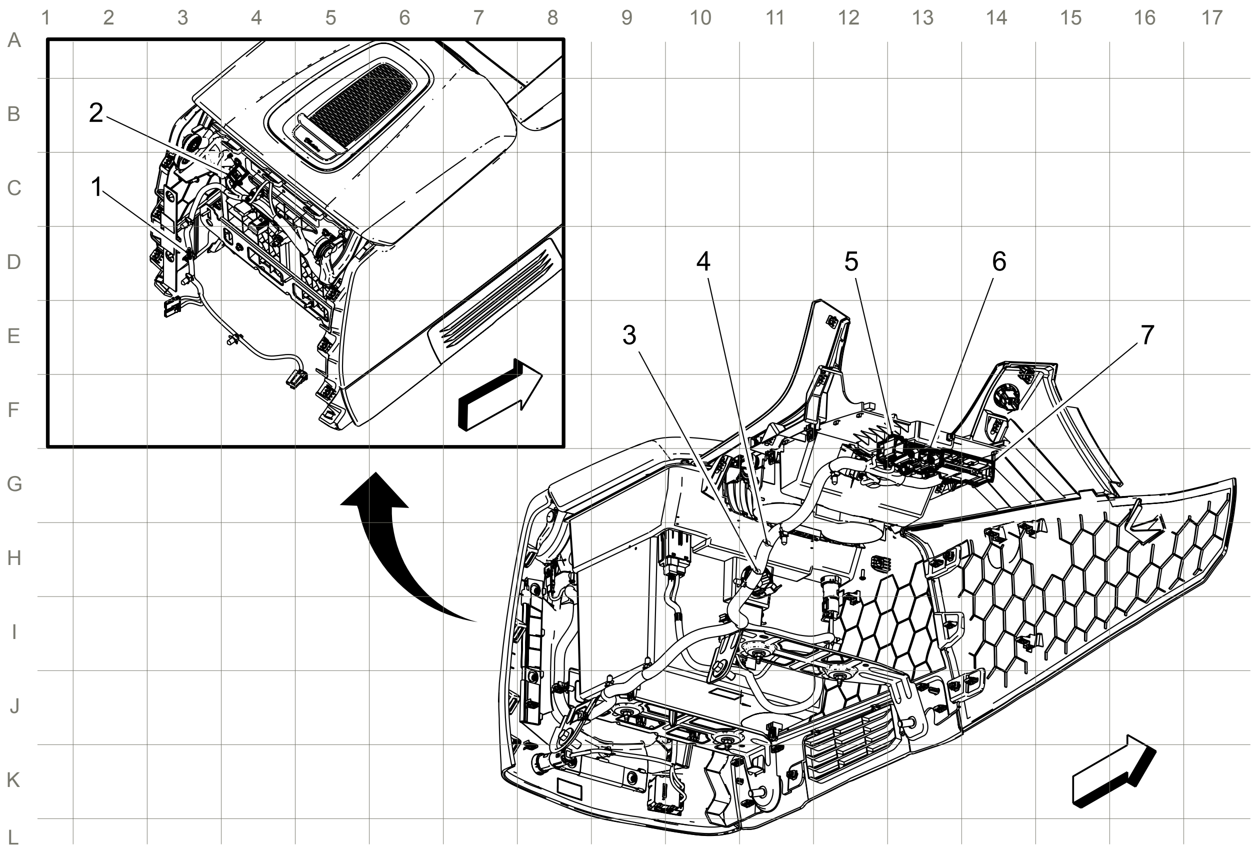
Items

1. X313 (DCK)

Floor Console Harness Routing - Bottom Front (Z75)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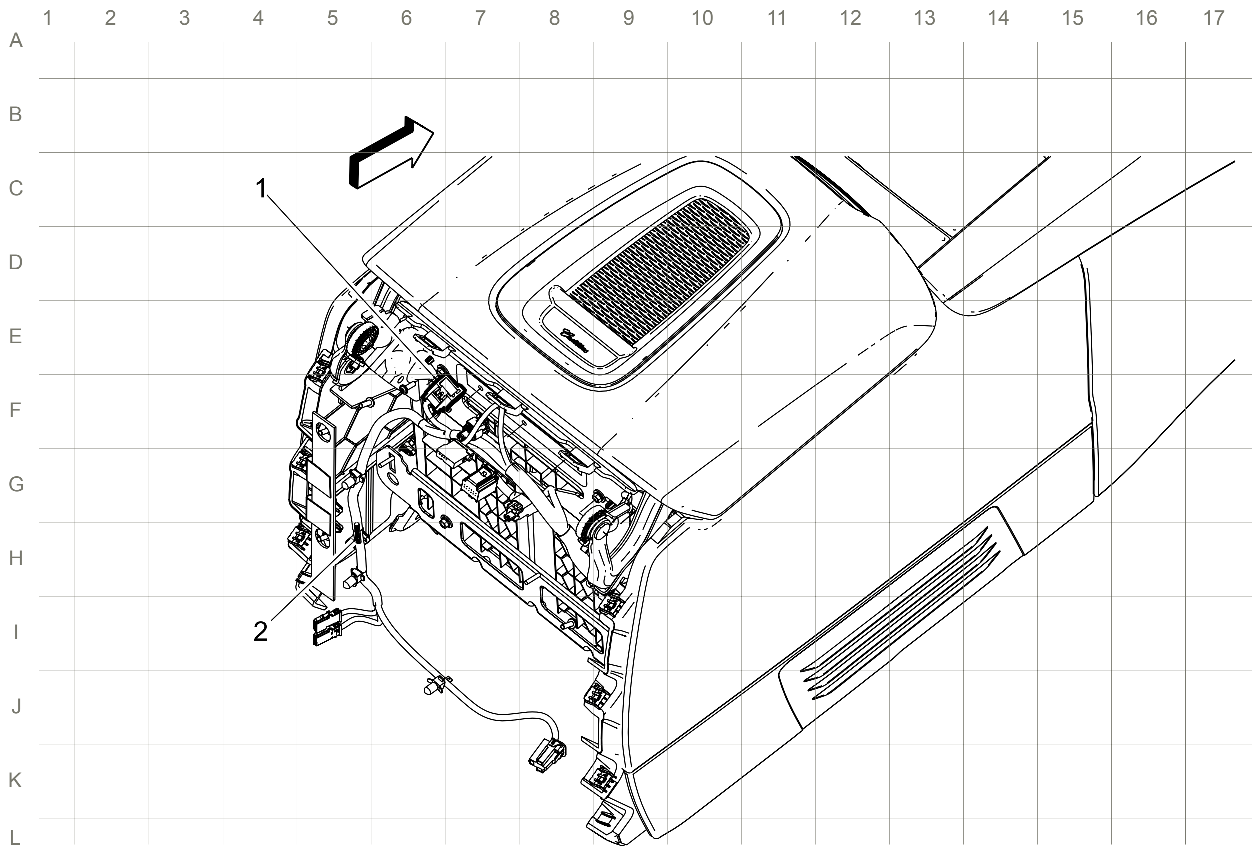
Items

1. J341
2. X313 (DCK)
3. J340
4. J339 (D07 with DCK or K4C)
5. X306 (KI4 or KI5 with D07)
6. X304 (AZ3)
7. X300 (D07)

Floor Console Harness Routing - Rear (Z75)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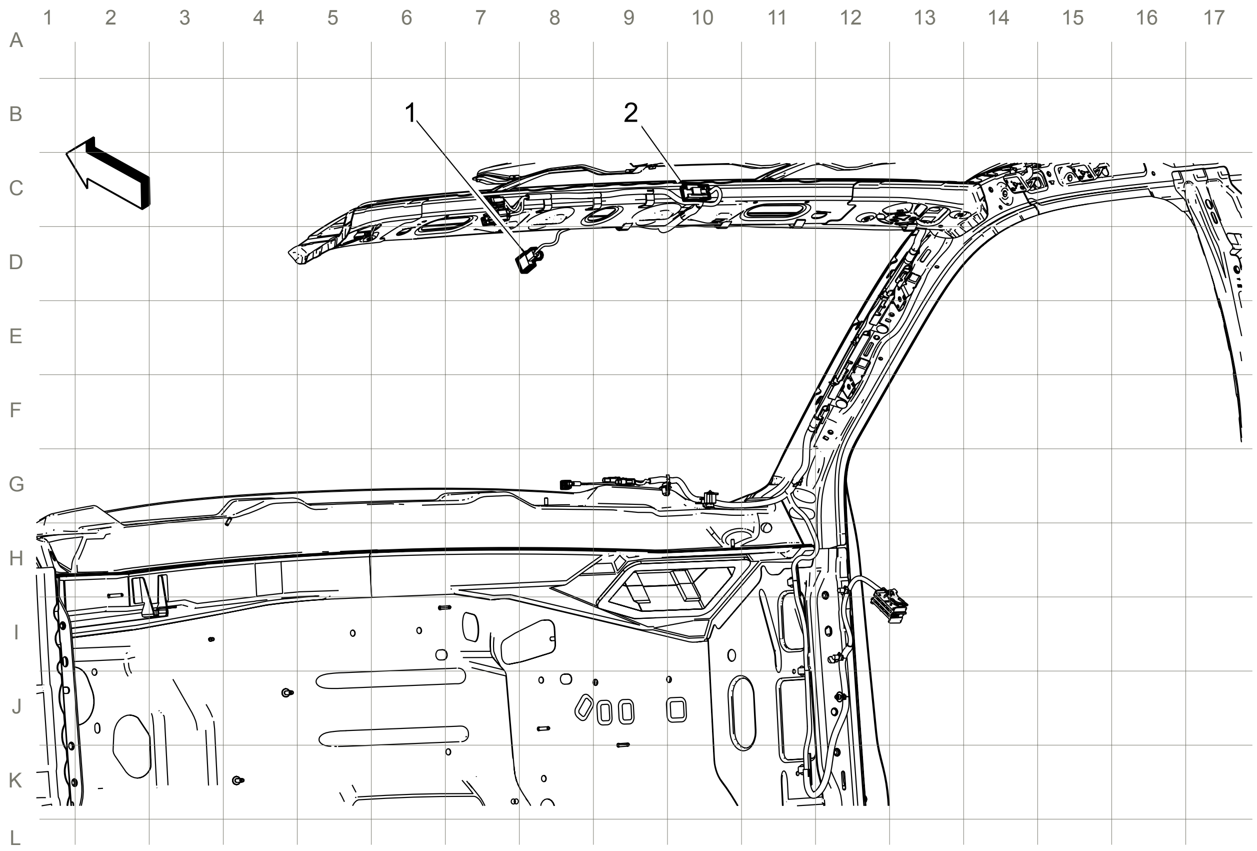
Items

1. X313 (DCK)

2. J341

A-Pillar Harness Routing - Right Passenger Compartment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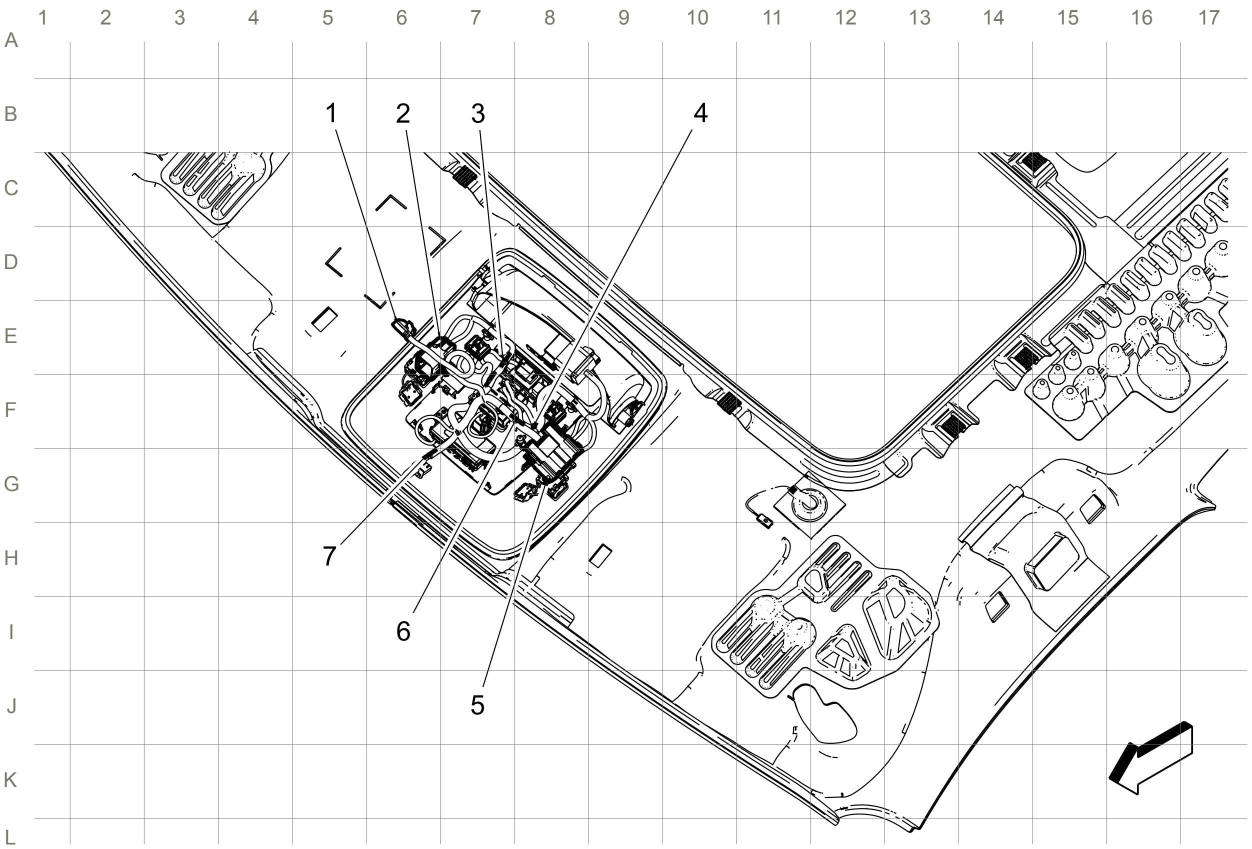
Items

1. X318
2. X319 (CF5)

Overhead Console Harness Routing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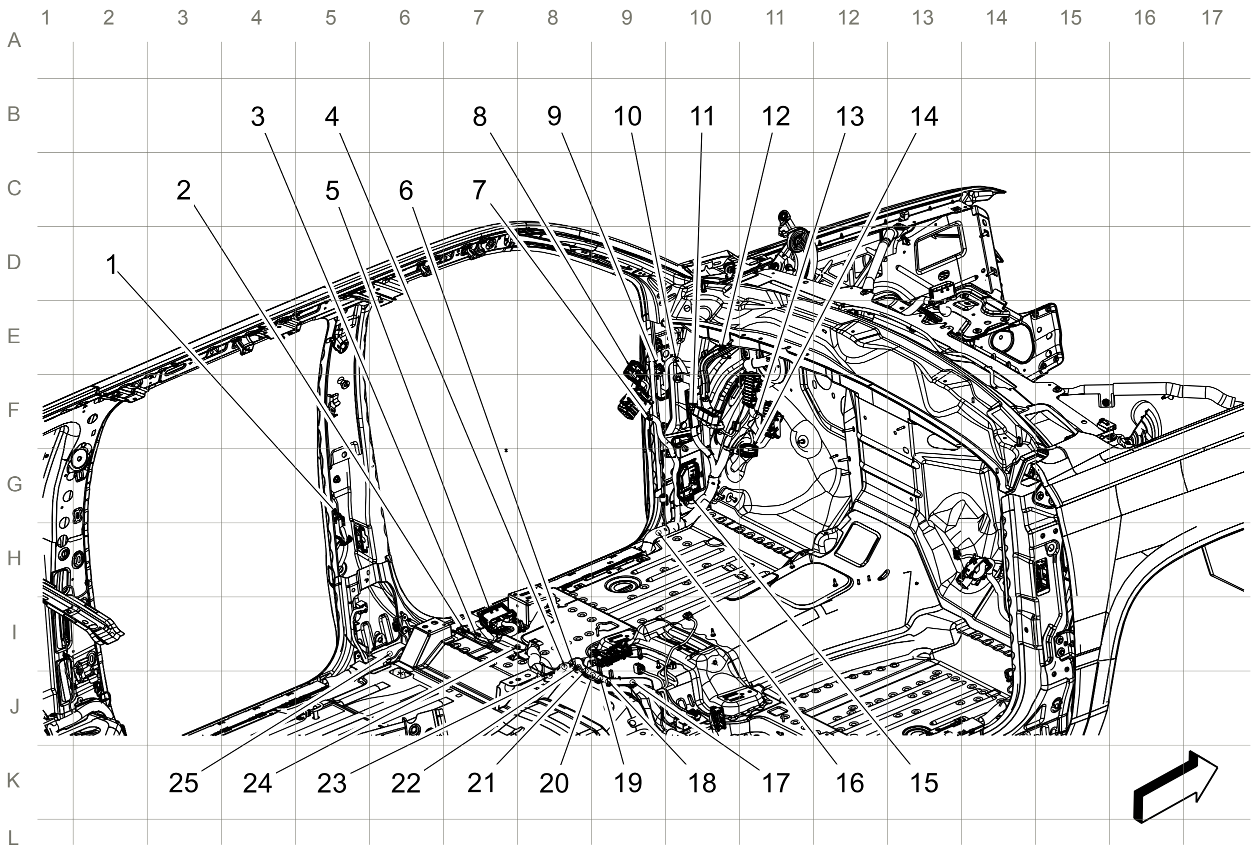
Items

1. X319 (CF5)
2. X324 (CF5)
3. J303
4. J302
5. X316
6. J301
7. J333

Body Harness Routing - Left Front of Passenger Compartment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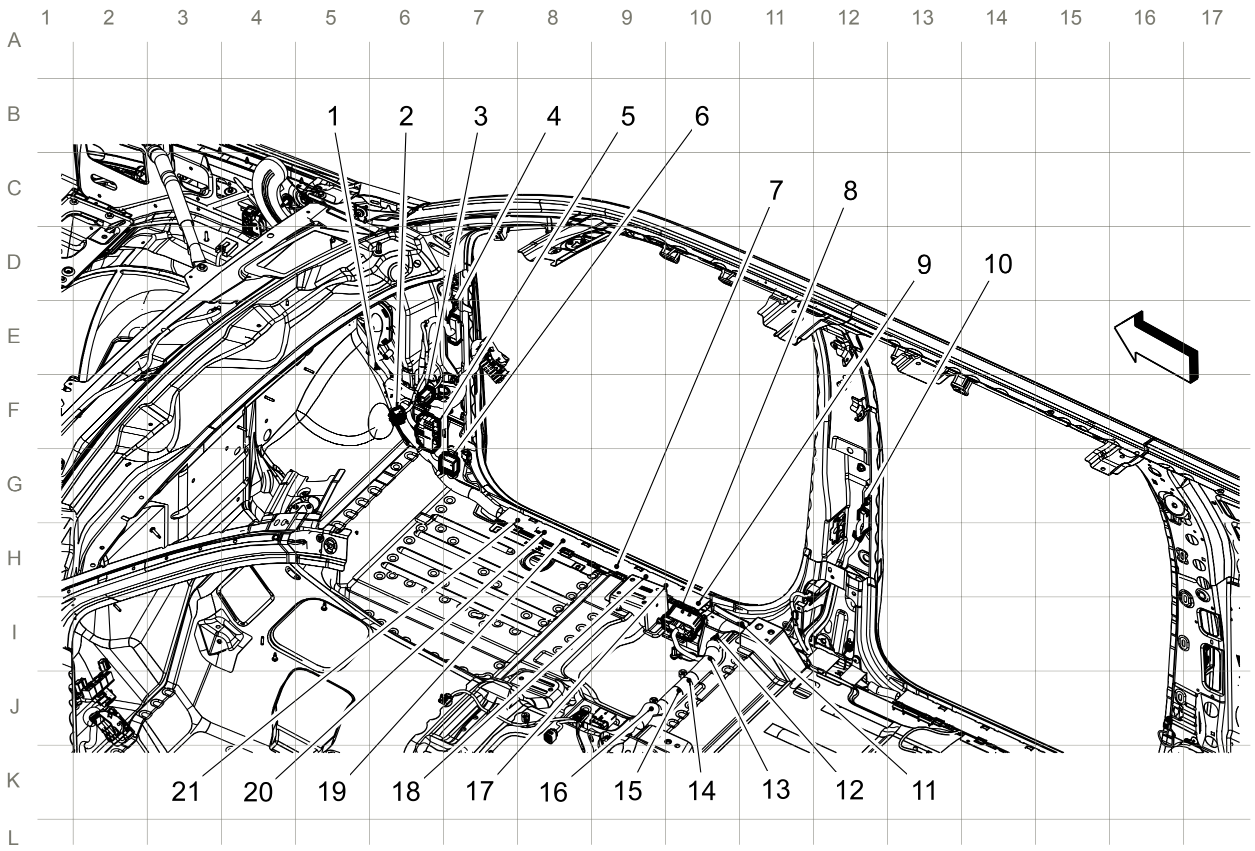
Items

1. X700
2. J330 (BTM or UGN)
3. J331
4. J382 (BRS, DL3, DR4 or HD7)
5. X310
6. J306
7. J308
8. X315 (NKC, UGN or UTT)
9. X500
10. J307 (DL3 or DR4)
11. J304 (Z75)
12. J289
13. J309 (IK9, JL1, NP0 or NQH)
14. X119
15. X225

16. J310 (UTT)
17. J350
18. J384
19. J385 (ULT)
20. J379 (DL3, DL8 or DR4)
21. J386
22. J383
23. J361
24. J334 (UGN with Z75)
25. J353

Body Harness Routing - Right Front of Passenger Compartment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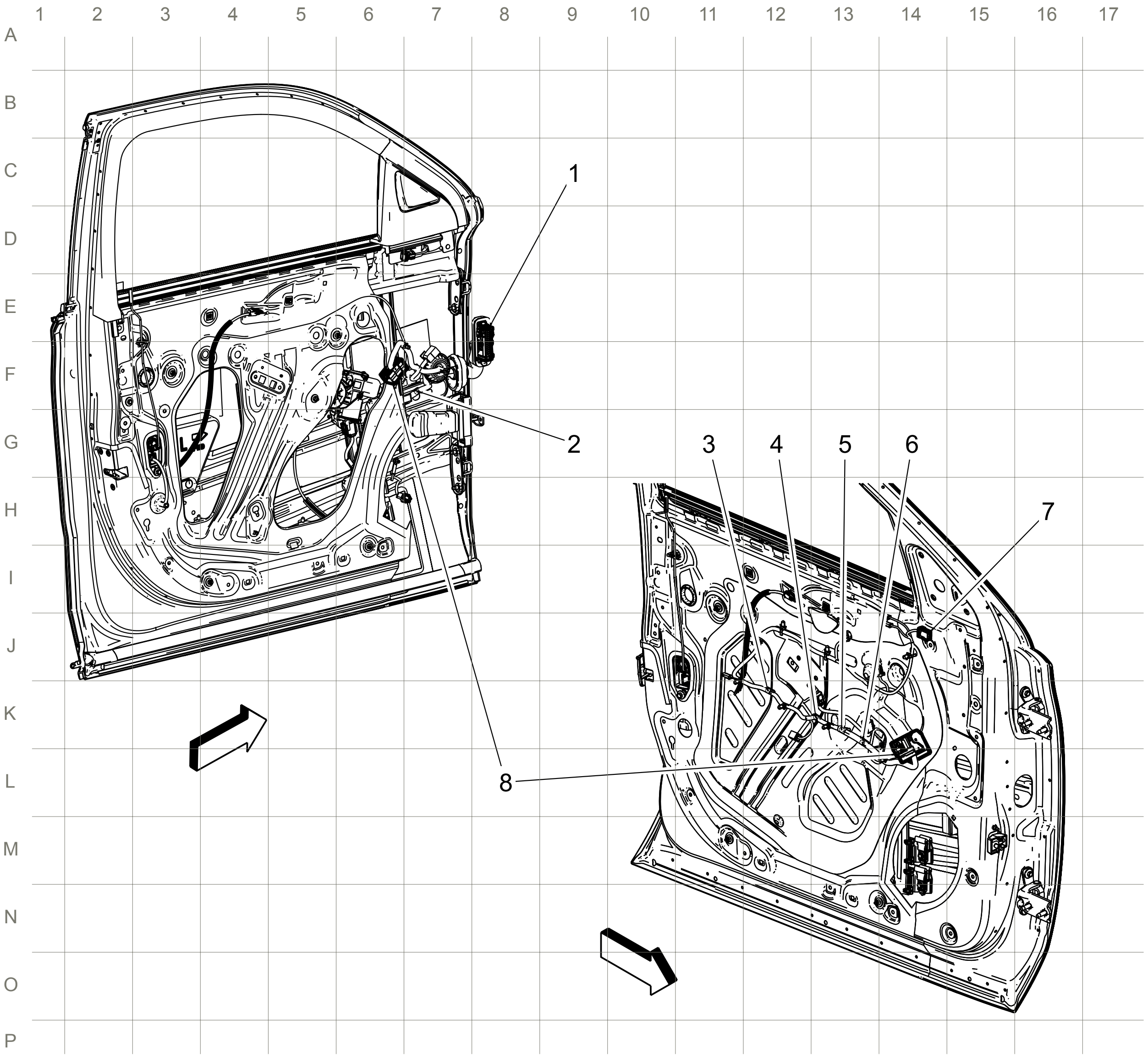
Items

1. J206
2. X216
3. X217
4. X600
5. X275
6. JX300
7. J369
8. X320
9. J370 (KA1, KA6 or UTT)
10. X800
11. J362 (AZ3, AX7, ATN, ATT, KA6 or Z75)
12. J364 (Z75)
13. J373 (UTT)
14. J372 (A45)
15. J371

16. J322 (906 or Z75)
17. J360
18. J363
19. J368
20. J365
21. J367 (DL3 or DR4)

Driver Door Harness Routing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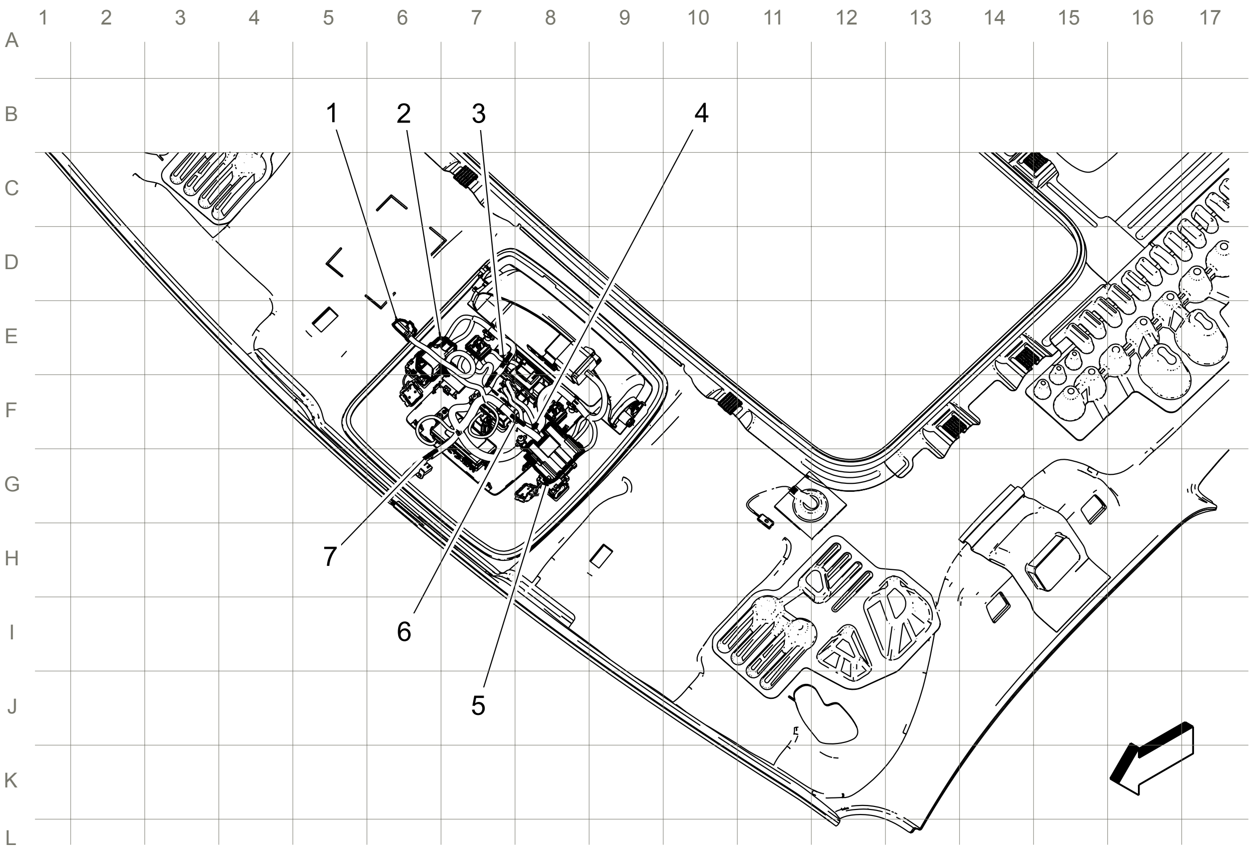
Items

1. X500
2. J515
3. J520 (Z75)
4. J518 (Z75)
5. J519
6. J516
7. X520
8. X505

Overhead Console Harness Routing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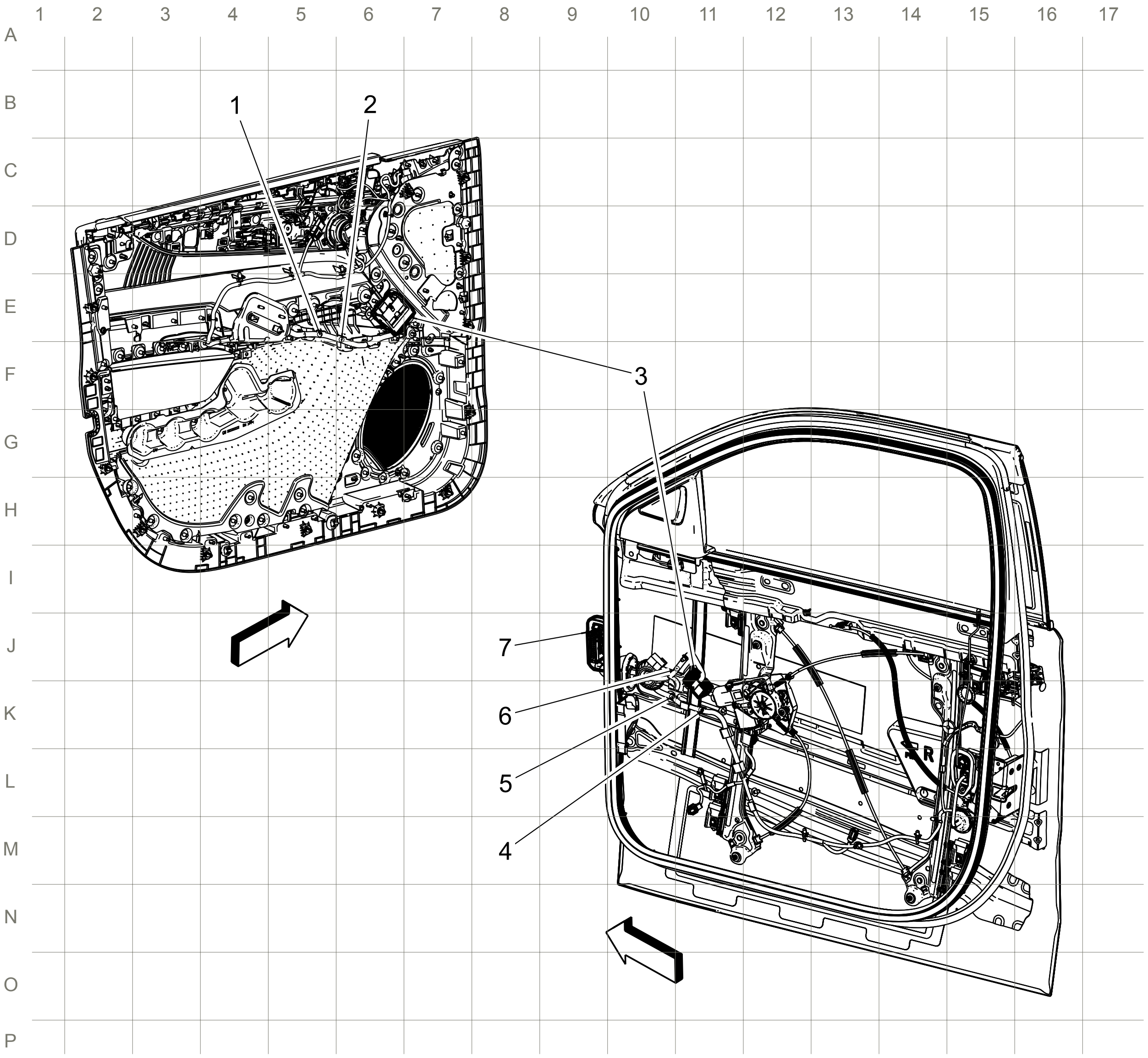
Items

1. X319 (CF5)
2. X324 (CF5)
3. J303
4. J302
5. X316
6. J301
7. J333

Passenger Door Harness Routing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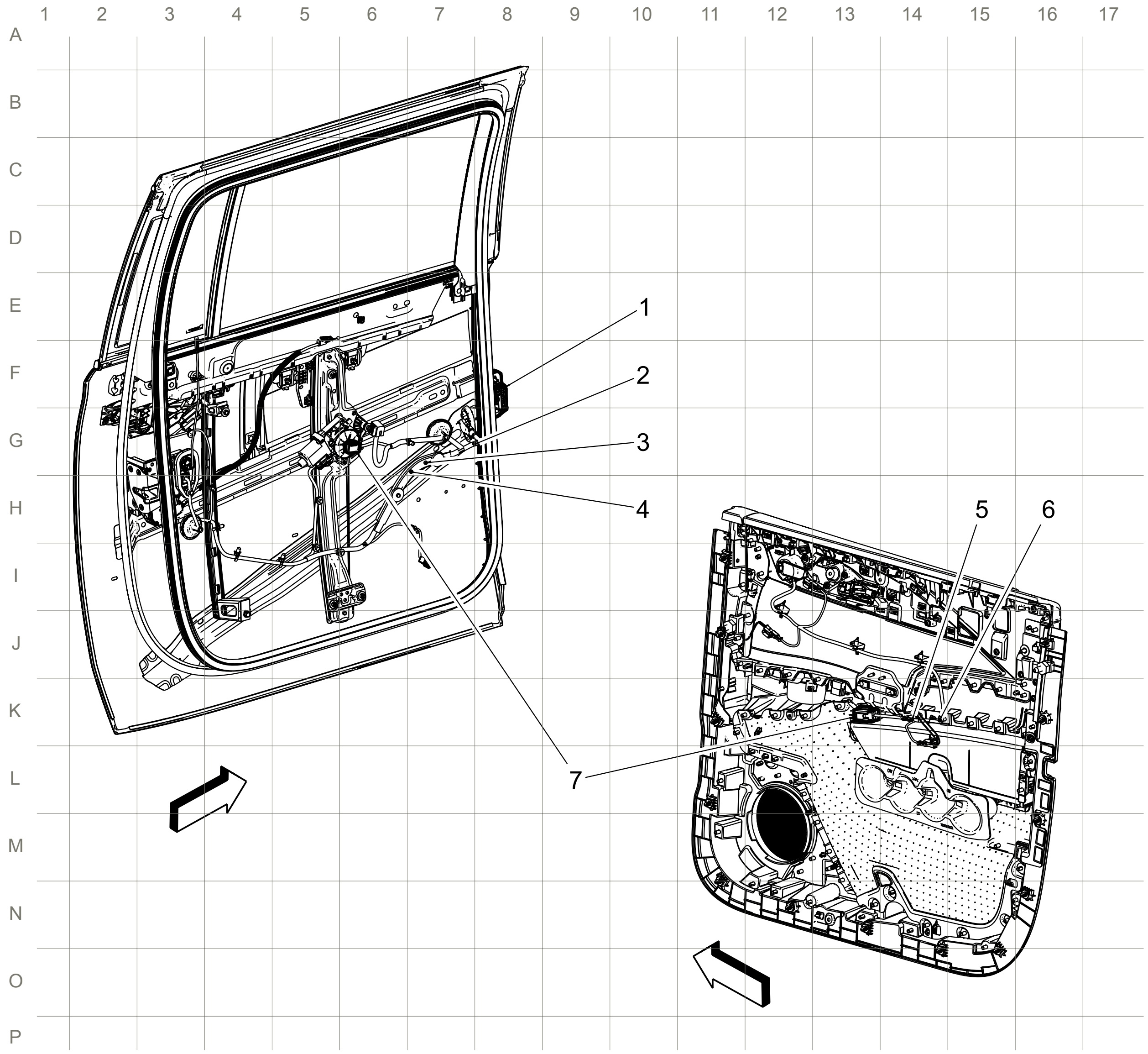
Items

1. J620 (Z75)
2. J616
3. X605
4. J611 (HD7)
5. J615
6. J610
7. X600

Left Rear Door Harness Routing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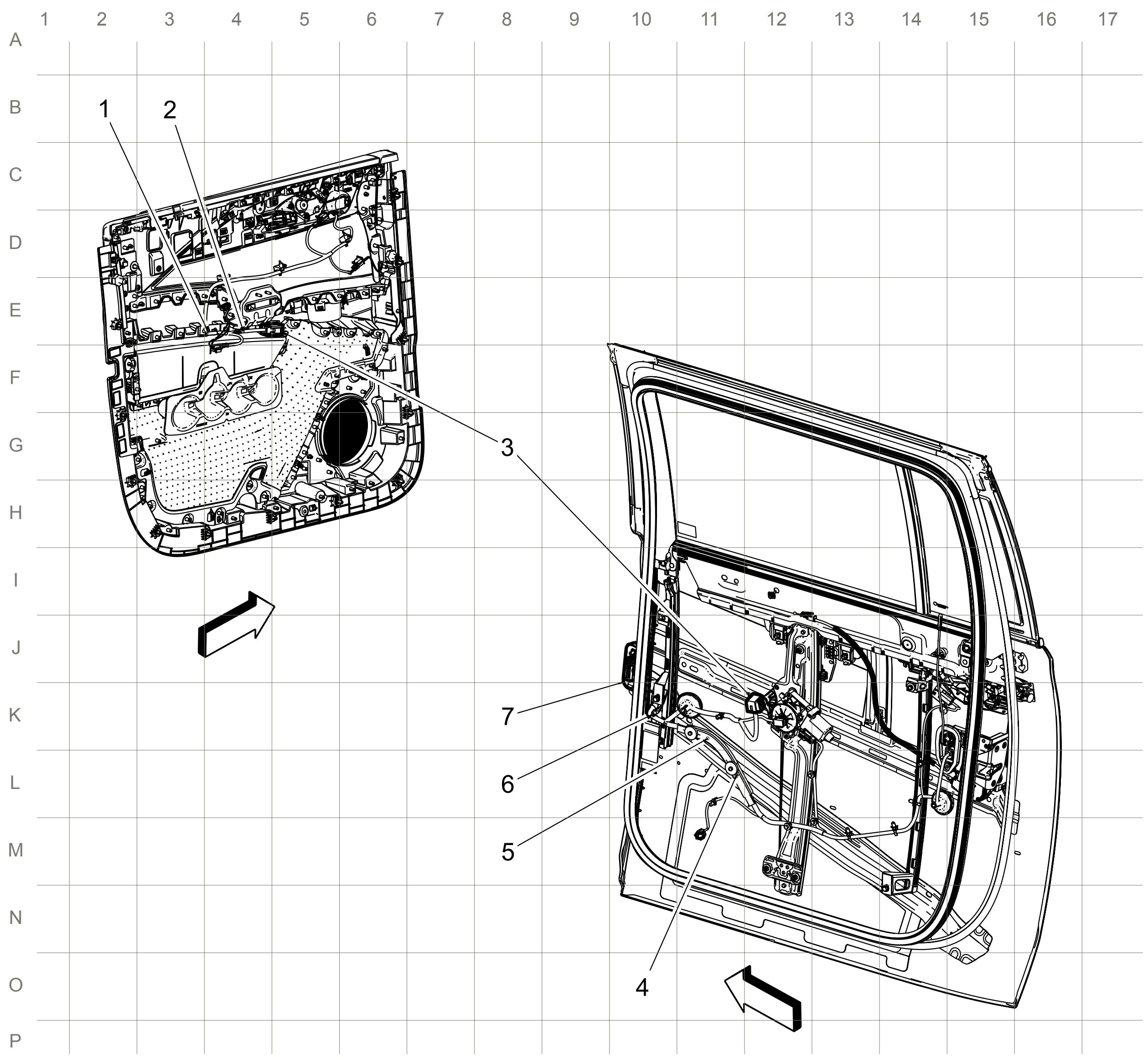
Items

1. X700
2. J715
3. J710 (UQH)
4. J711 (UQH)
5. J116 (Z75)
6. J720 (Z75)
7. X705

Right Rear Door Harness Routing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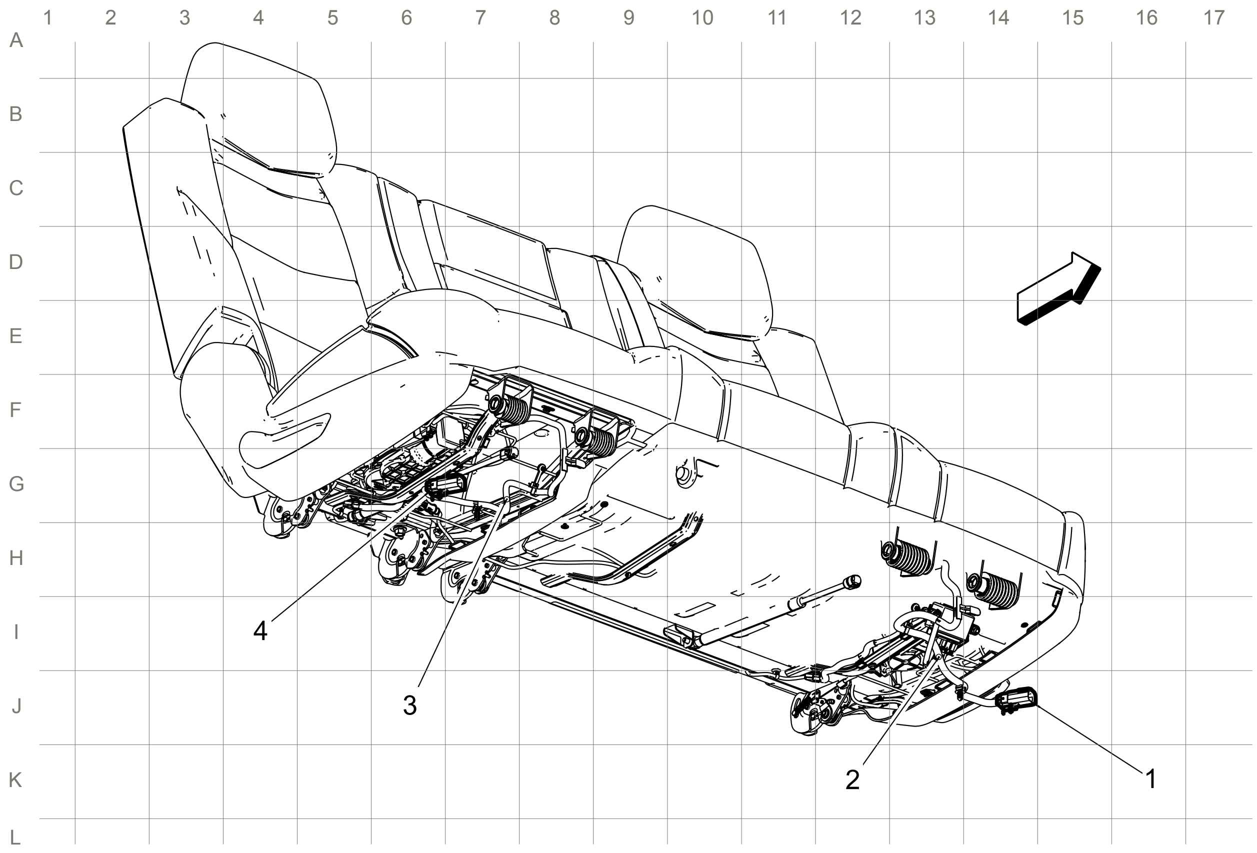
Items

1. J820 (Z75)
2. J816 (Z75)
3. X805
4. J811 (UQH)
5. J810 (UQH)
6. J815
7. X800

Second Row Seat Harness Routing (ATT)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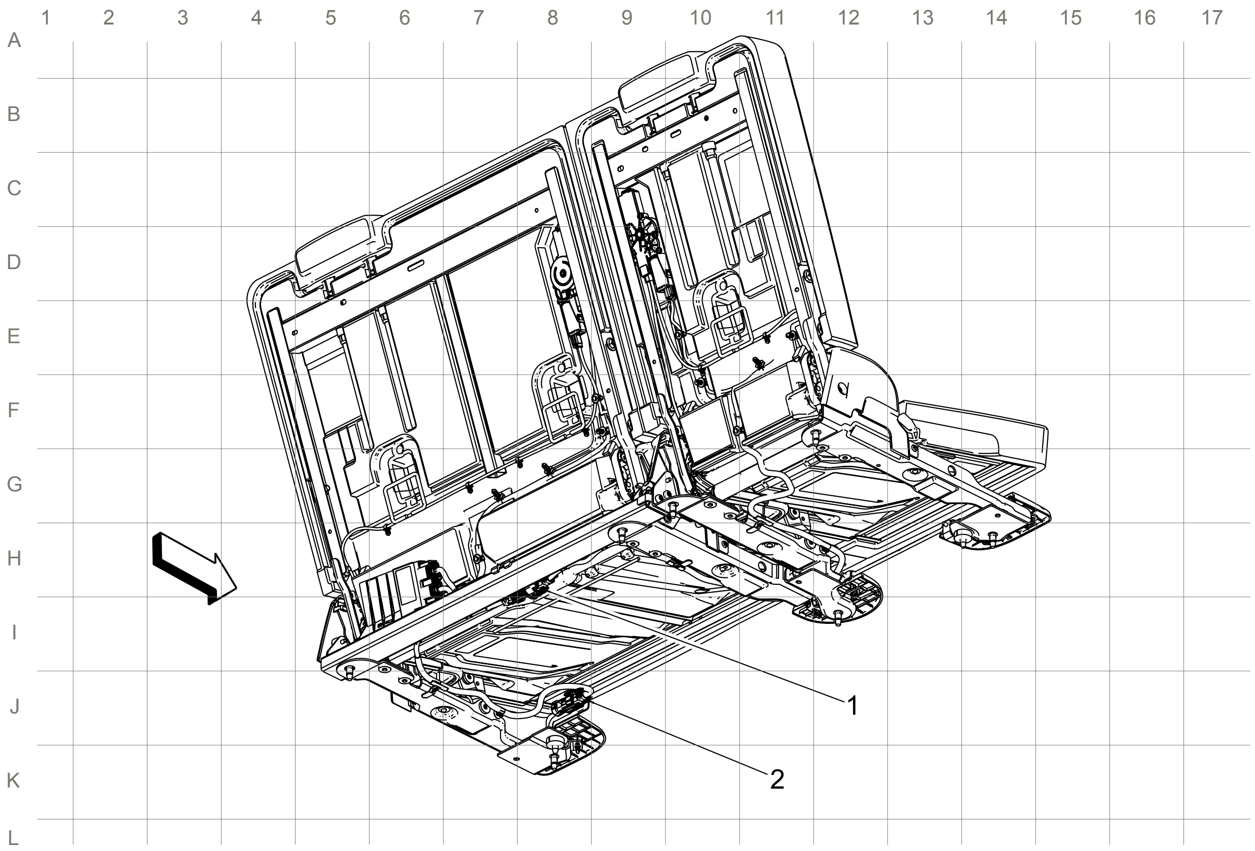
Items

1. X308 (ATN, ATT or KA6)
2. J357 (ATN or ATT with KA6)
3. J366 (ATN or ATT with KA6)
4. X378 (ATN or ATT)

Third Row Seat Harness Routing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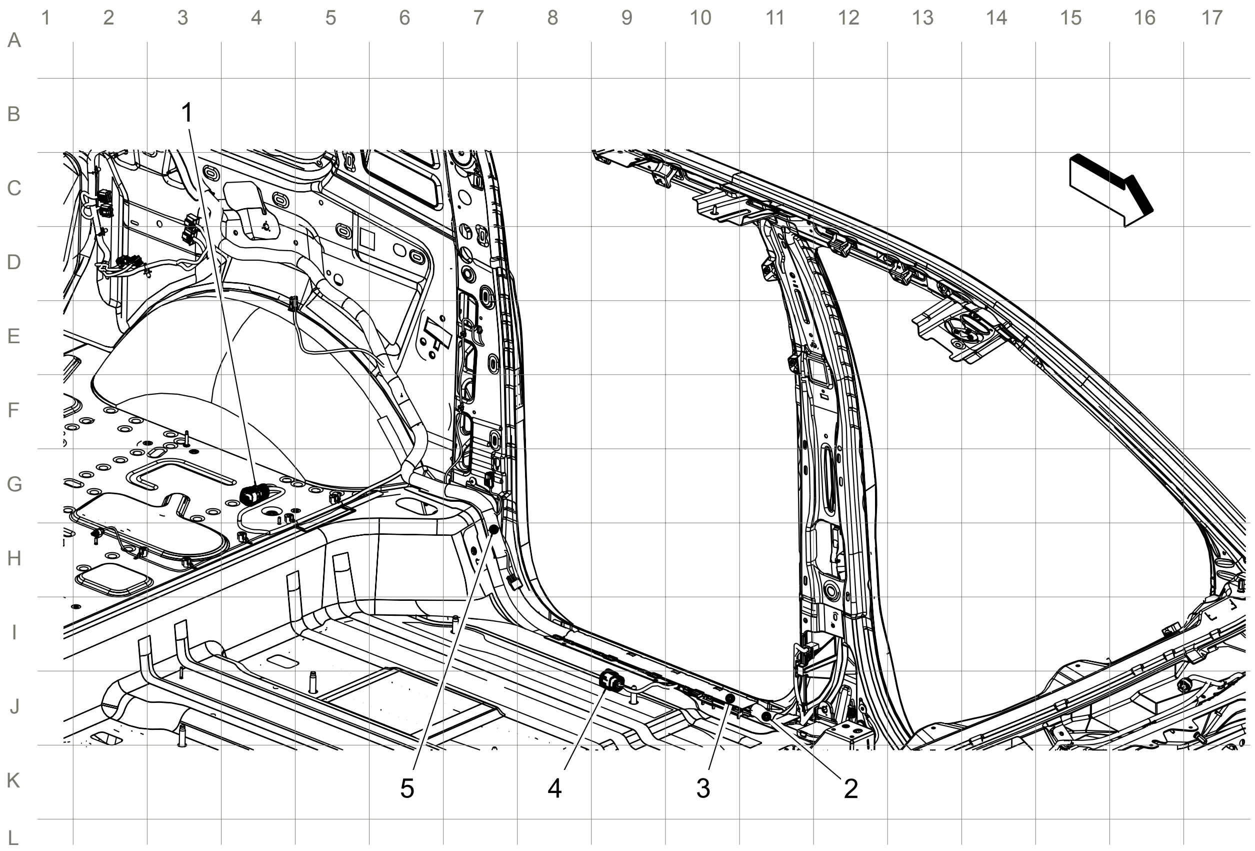
Items

1. X340 (AS8)
2. X338 (AS8)

Body Harness Routing - Left Middle of Passenger Compartment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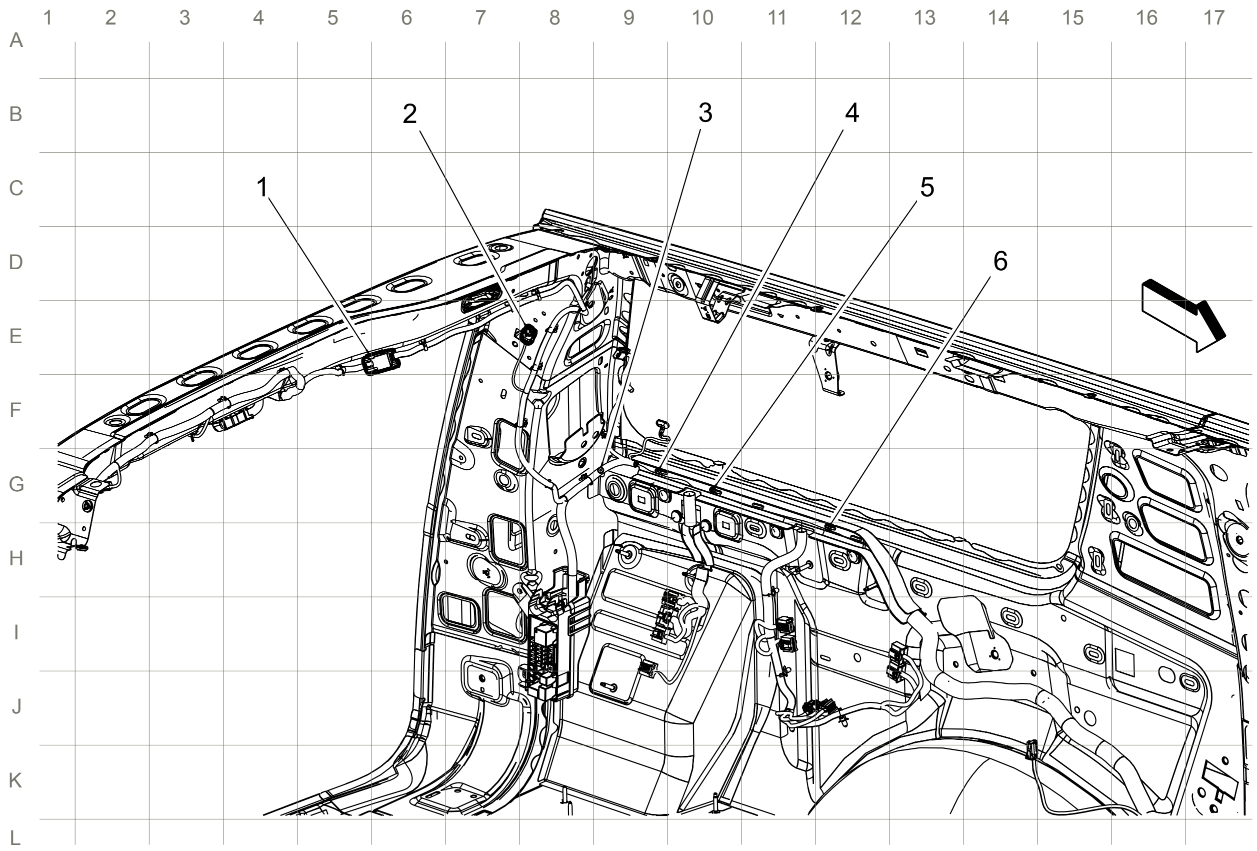
Items

1. X310
2. J351 (without BTM)
3. J352 (ATN or ATT)
4. X308 (ATN, ATT or KA6)
5. J354

Body Harness Routing - Left Rear of Passenger Compartment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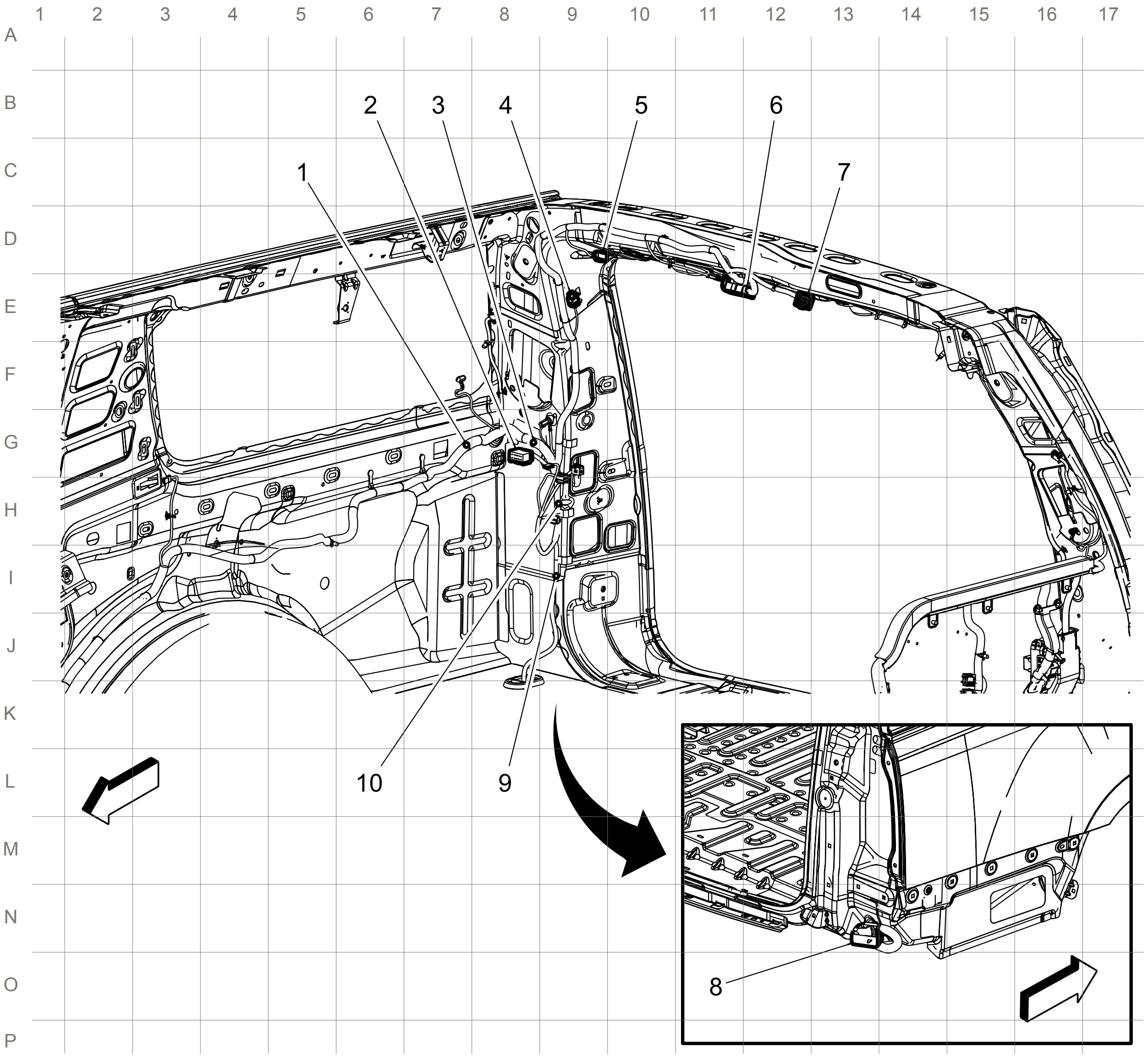
Items

1. X490
2. X380 (AY0)
3. J463
4. J462 (UQS)
5. J461 (UQS)
6. J460 (ATN or ATT)

Body Harness Routing - Right Rear of Passenger Compartment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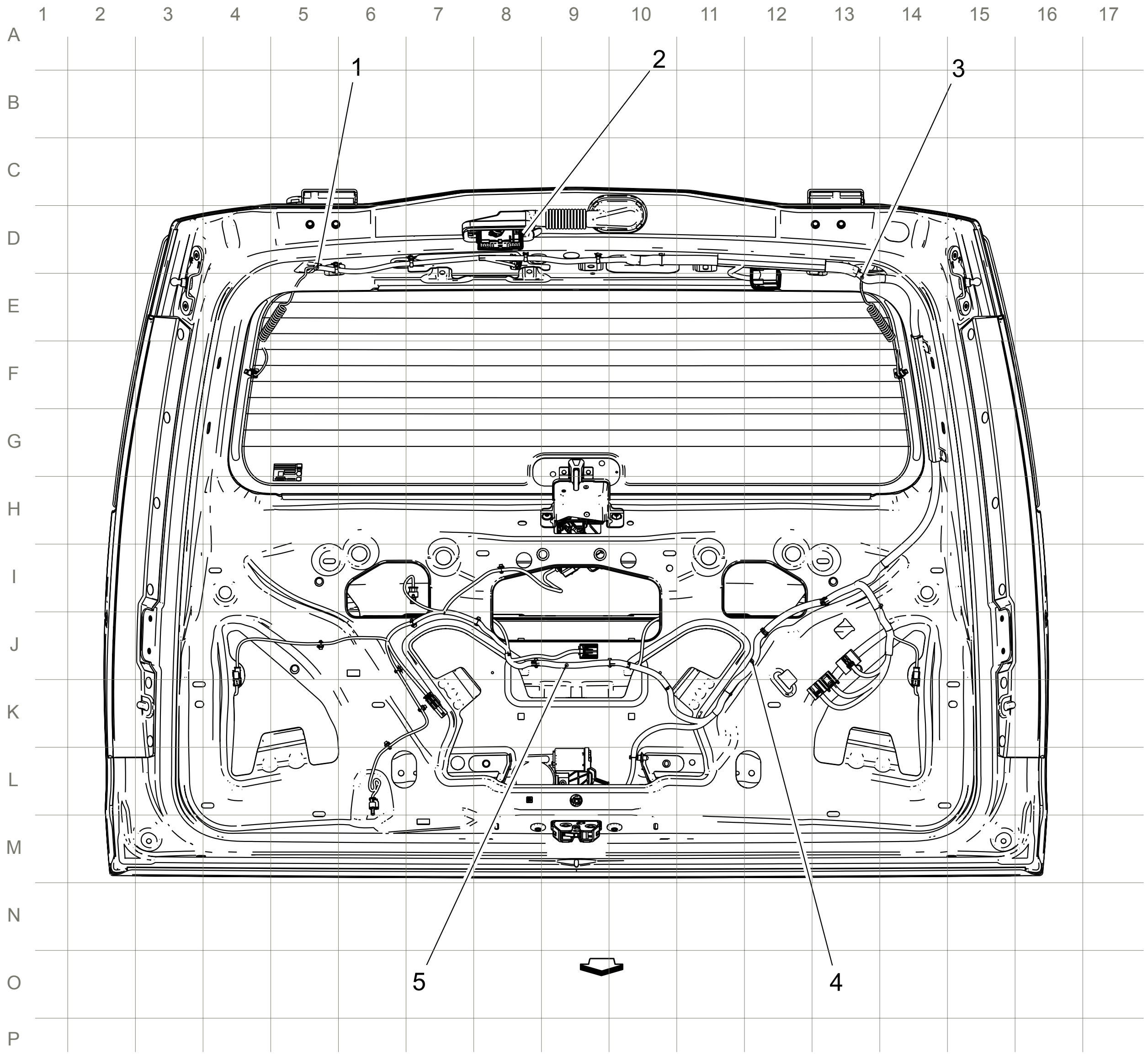
Items

1. J402
2. X487
3. J403 (K59, TC2, UEU, UFL, UGN or UKC)
4. X390 (AY0)
5. X486 (906)
6. X900
7. X490
8. X495
9. J401 (ATN or ATT)
10. J404 (ATT or ATN)

Liftgate Harness Routing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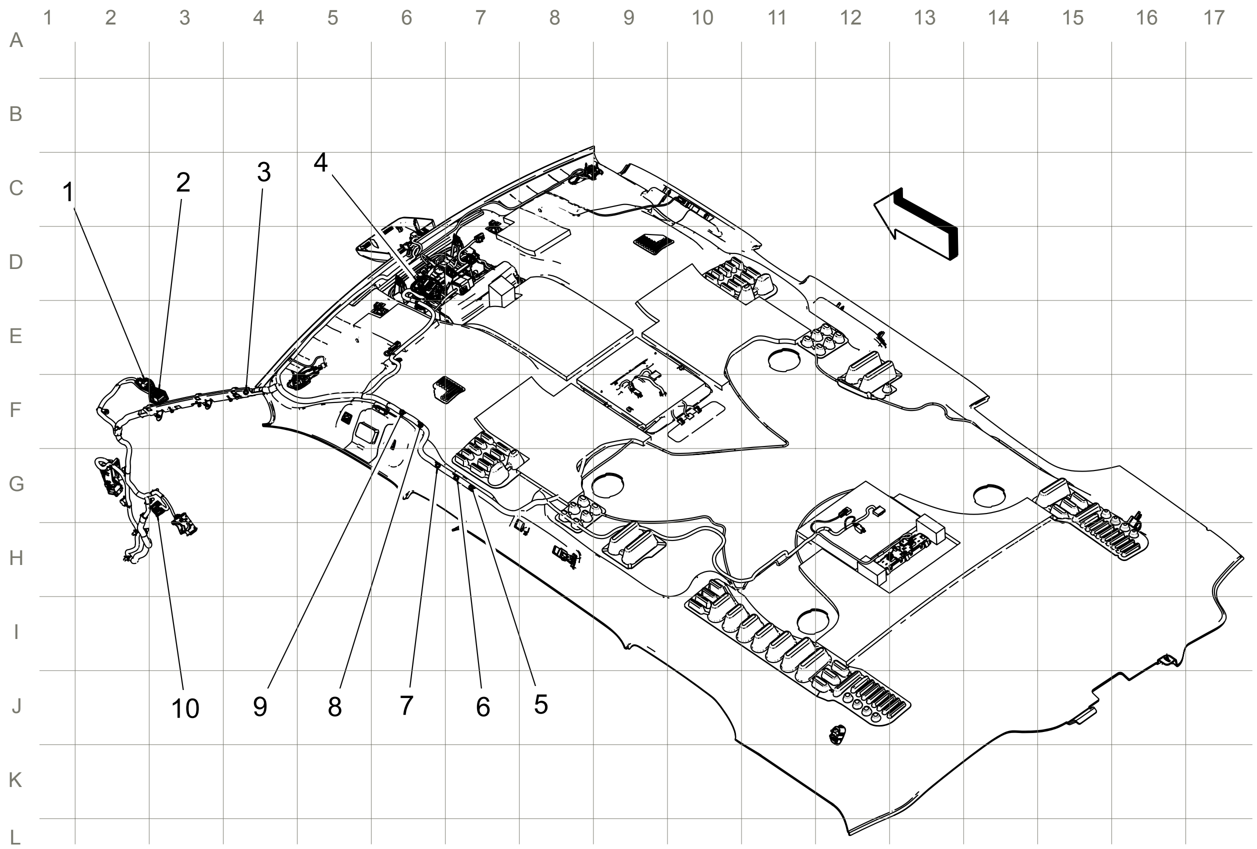
Items

1. J901
2. X900
3. J902
4. J903 (TB5)
5. J904

Headliner Harness Routing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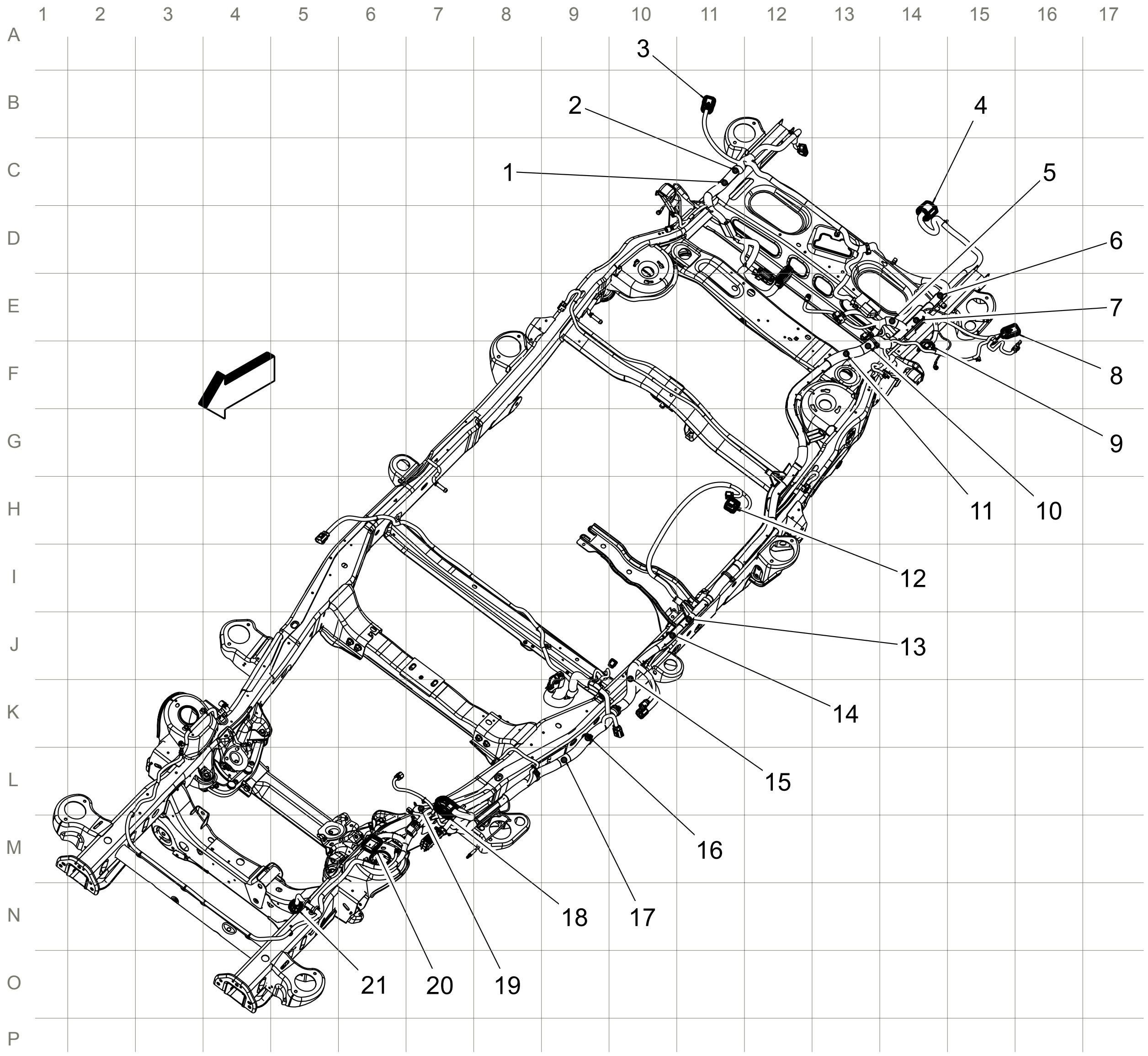
Items

1. X204 (U42 or DNU)
2. X203
3. J319 (DNU or U42)
4. X316
5. J332
6. J312
7. J320 (AZ3)
8. J313
9. J311
10. X315 (NKC, UGN or UTT)

Chassis Harness Routing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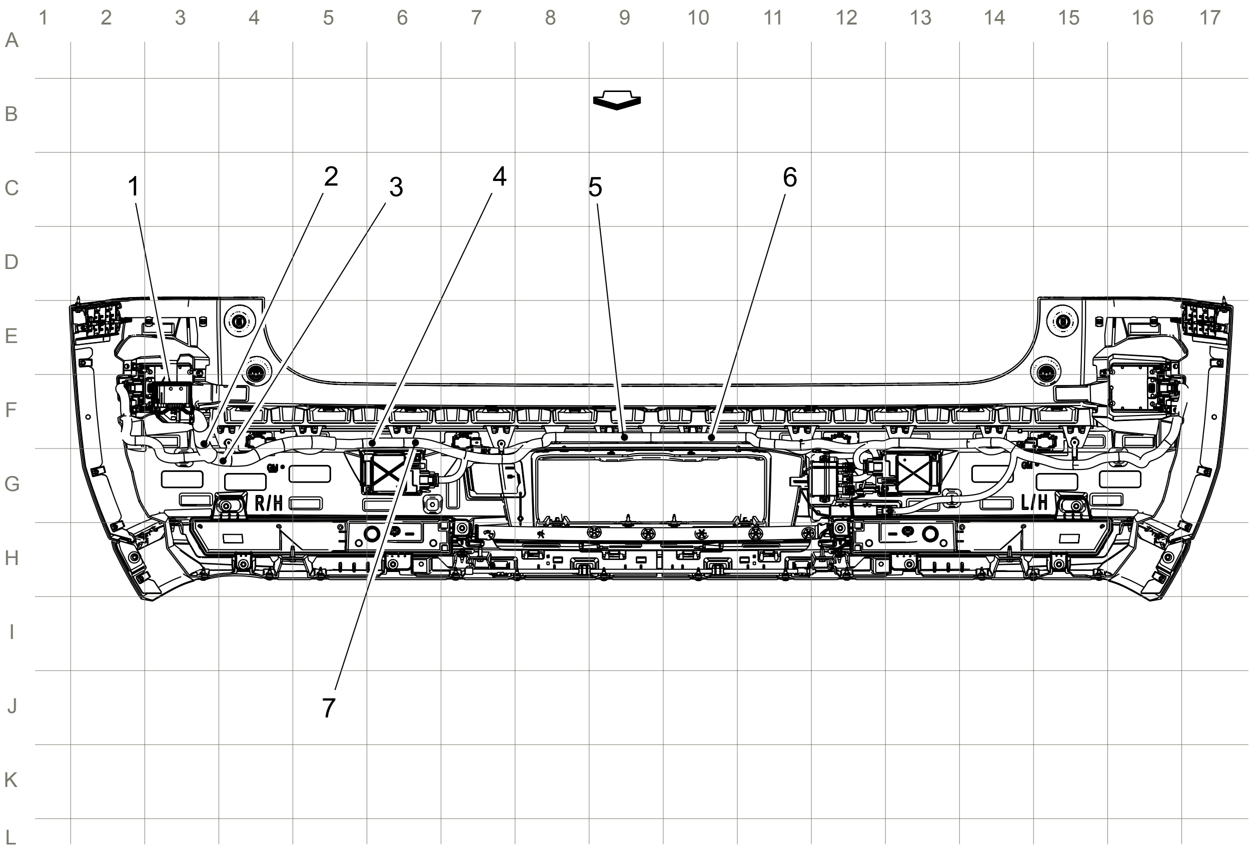
Items

1. J441 (IK9)
2. J442 (IK9)
3. X420
4. X88 Trailer Connector (without VQ9)
5. J452
6. J450
7. J453
8. X410
9. X400 (Z85 or Z95)
10. J451 (BRS, JL1, Z85 or Z95)
11. J449 (IK9 or JL1)

11. J449 (IK9 or JL1)
12. X351
13. J375
14. J355
15. J356
16. J192 (BRS)
17. J191
18. X185
19. J199 (IK9)
20. X125
21. X182

Rear Bumper Harness Routing (Z75)



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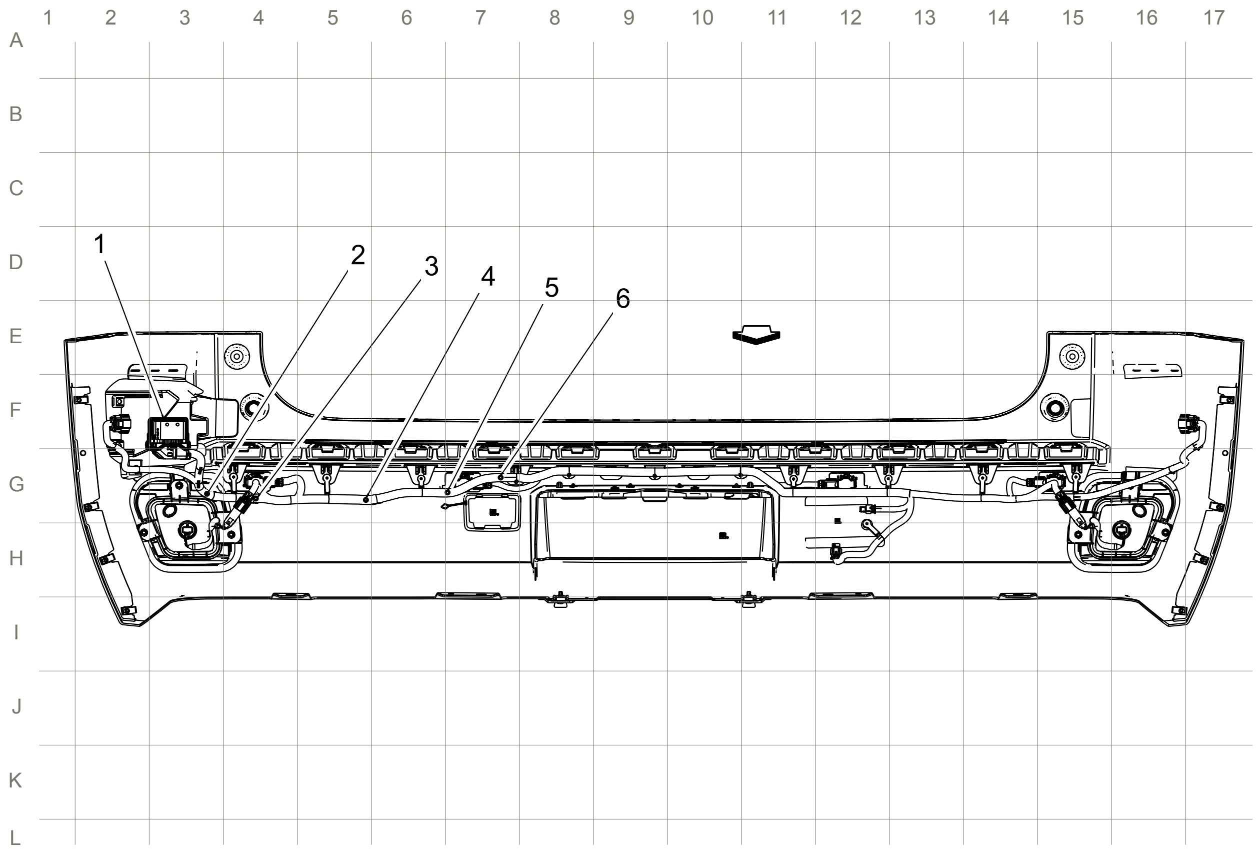
Items

1. X495
2. J499 (T79, UKC or UGN with Z75)
3. J490 (UD5 or UD7)
4. J494 (Z75 with UGN)
5. J495 (UD5 or UD7)
6. J498 (UKC)
7. J493 (T79)

Rear Bumper Harness Routing (X88 or Z88)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Items

1. X495
2. J490 (UD5 or UD7)
3. J495 (UD5 or UD7)
4. J499 (T79, UKC or UGN with Z75)
5. J493 (T79)
6. J498 (UKC)

Electrical Schematic Symbols

Voltage Indicators

Symbol	Description
B+	Battery Voltage
IGN 0	Ignition Switch– Off Position
IGN I	Ignition Switch– Accessory Position
IGN II	Ignition Switch– Run Position
IGN III	Ignition Switch– Start Position

General Icons

Symbol	Description

LOC	Master Component List Icon This icon is used on the schematic to link to the Master Electrical Component List.
DESC	Description and Operation Icon This icon is used on the schematic to link to the Description and Operation of that particular system.
⇄🔧	Computer Programming Icon This icon is used on the schematic to link to Control Module References, which identifies which components need programming upon replacement.
➡	Next Schematic Page Icon This icon is used on the schematic to navigate to the next schematic in the subsystem.
⬅	Previous Schematic Page Icon This icon is used on the schematic to navigate to the previous schematic in the subsystem.
⚠	Supplemental Inflatable Restraint (SIR) or Supplemental Restraint System (SRS) Icon This icon is used to alert the technician that the system contains SIR/SRS components that require certain precautions before servicing.

ℹ	Information Icon This icon is used to alert the technician that there is additional information that will aid in servicing a system.
⚠	Danger Icon This icon is intended to alert the technician that a component within the system contains labeling with the same icon. This icon is used when a source component has potential for 60 volts DC or greater or has potential for 42 volts AC or greater.
⚡	High Voltage Icon This icon is intended to alert the technician that a component within the system contains labeling with the same icon. This icon is used when a component/circuit has potential for 60 volts DC or greater or has potential for 42 volts AC or greater.
⚠	Caution Icon This icon is used to advise the technician to use caution when servicing this component. This icon may be used when a component/circuit has a voltage range potential between 30-60 volts DC or 15-42 volts AC.
⇅	Functional Serial Data Communication This icon is used to show the technician that the serial data circuit detail is shown incomplete. It also provides an active link to the Data Communication Schematics were the circuit is shown complete.

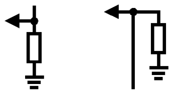
Switch Position Icons

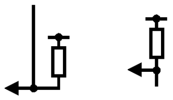
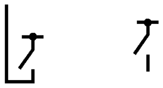
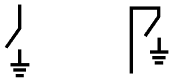
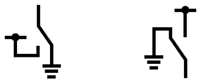
Symbol	Description

↑ ∧ △	Generic Up Arrows
↓ ∨ ▽	Generic Down Arrows
← < ◁	Generic Left Arrows
→ > ▷	Generic Right Arrows
⇊	Generic Express Down Arrows
⏻	On/Off Icon

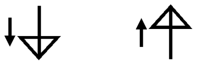
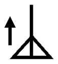
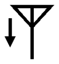
🔒	Generic Lock Icon
🔓	Generic Unlock Icon
▘ ▝ ▖ ▗	Generic Window Switch Positions– 4 Door
◧ ◨	Generic Window Switch Positions– 2 Door

Module Circuit Function Icons

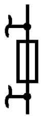
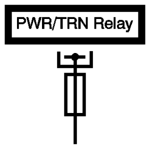
Symbol	Description
	I/O Pull-Down Resistors (−)

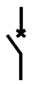
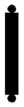
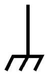
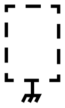
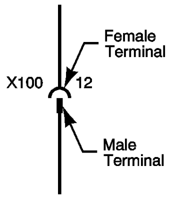
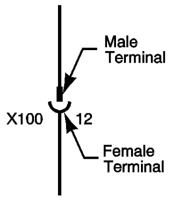
	I/O Pull-Up Resistors (+)
	I/O High-Side Drive Switch (+)
	I/O Low-Side Drive Switch (+)
	I/O Bidirectional Switch (+/−)
	Pulse-Width Modulation Symbol
B+	Battery Voltage

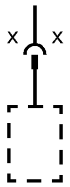
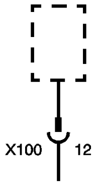
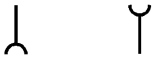
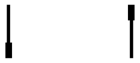
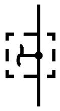
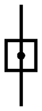
IGN	Ignition Voltage
5V	Voltage Reference
5V AC	A/C Voltage
⏚ ⏚	Low Reference
⏊ ⏊	Ground
⇅	Serial Data

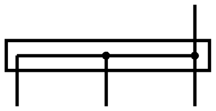
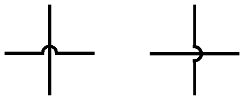
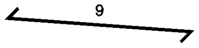
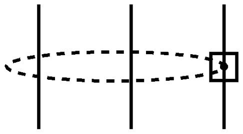
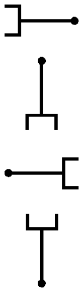
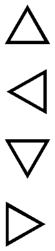
	Antenna Signal– In
 	Antenna Signal– Out
	Brake Apply

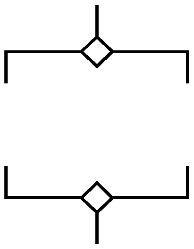
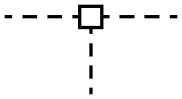
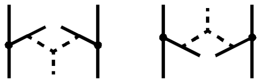
Harness Components

Symbol	Description
	Fuse
	Fuse Supplied by a Relay

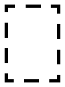
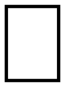
	Circuit Breaker
	Fusible Link
	Ground
	Case Ground
 Female Terminal X100 12 Male Terminal	Inline Harness Connector
 Male Terminal X100 12 Female Terminal	Inline Harness Connector

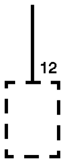
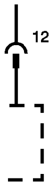
	Pigtail Connection
	Pigtail Connection
	Provisional or Diagnostic Connector
	Blunt Cut Wire
	Incomplete Physical Splice
	Complete Physical Splice– 2 Wires

	Complete Physical Splice– 3 or more wires
	Wire Crosses
	Twisted Wires
	Shield
	Circuit References
	Circuit Continuation Arrowheads

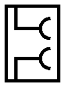
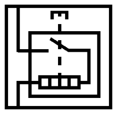
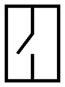
	Option Breakpoint
	Ground Circuit Connection
	Connector Shorting Clip

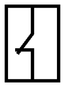
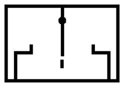
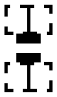
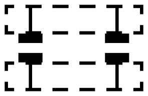
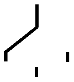
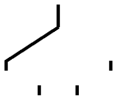
Component Parts

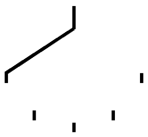
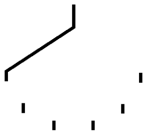
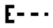
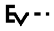
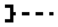
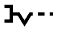
Symbol	Description
	Partial Component When a component is represented in a dashed box, the component or its wiring is not shown in its entirety.
	Entire Component When a component is represented in a solid box the component or its wiring is shown in its entirety.

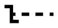
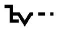
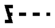
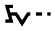
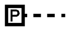
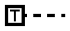
	Connector Directly Attached to Component
	Pigtail Connector

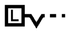
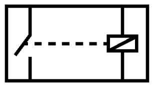
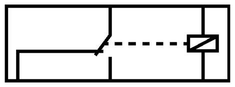
Switches and Relays

Symbol	Description
	Accessory Power Outlet
	Cigar Lighter
	Switch– 2 Position Normally Open

	Switch– 2 Position Normally Closed
	Switch– Rocker
	Switch– Contact Plate (1 Wire)
	Switch– Contact Plate (2 Wire)
	Switch– 3 Position
	Switch– 4 Position

	Switch– 5 Position
	Switch– 6 Position
	Switch Actuator– Push (Momentary)
	Switch Actuator– Push (Latching)
	Switch Actuator– Pull (Momentary)
	Switch Actuator– Pull (Latching)

	Switch Actuator– Rotate (Momentary)
	Switch Actuator– Rotate (Latching)
	Switch Actuator– Slide (Momentary)
	Switch Actuator– Slide (Latching)
	Switch Actuator– Pressure (Momentary)
	Switch Actuator– Temperature (Momentary)

	Switch Actuator– Volume (Latching)
	4-Pin Single Pole/Throw Relay– Normally Open
	5-Pin Relay– Normally Closed

Devices and Sensors

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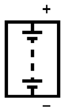
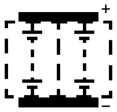
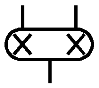
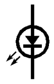
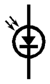
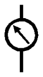
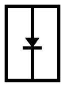
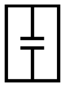
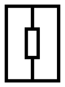
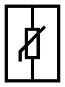
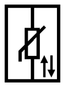
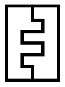
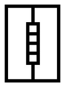
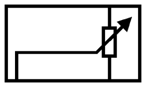
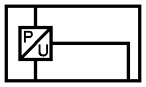
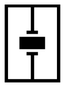
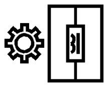
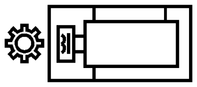
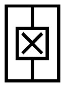
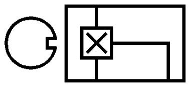
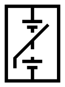
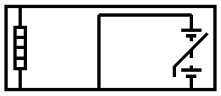
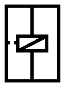
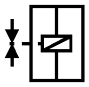
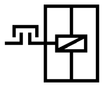
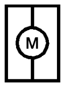
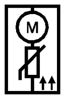
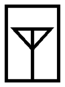
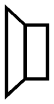
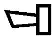
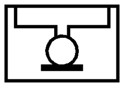
	Battery
	Battery Assembly– Hybrid

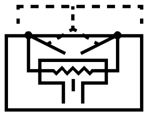
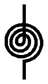
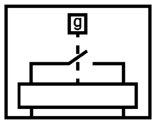
	Single Filament Light Bulb
	Double Filament Light Bulb
	Light Emitting Diode (LED)
	Photo Sensor
	Gauge
	Diode

	Capacitor
	Resistor
	Variable Resistor
	Variable Resistor– NTC
	Breakable Wire
	Heating Element

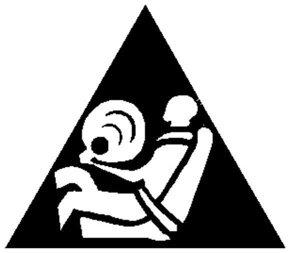
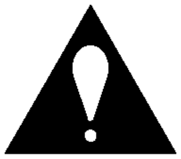
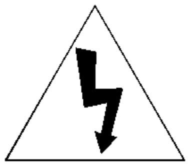
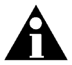
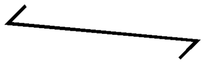
	Position Sensor
	Pressure Sensor
	Knock Sensor
	Inductive Type Sensor– 2-Wire
	Inductive Type Sensor– 3-Wire
	Hall Effect Sensor– 2-Wire

	Hall Effect Sensor– 3-Wire
	Oxygen Sensor– 2-Wire
	Heated Oxygen Sensor– 4-Wire
	Solenoid– Actuator
	Solenoid– Valve
	Clutch

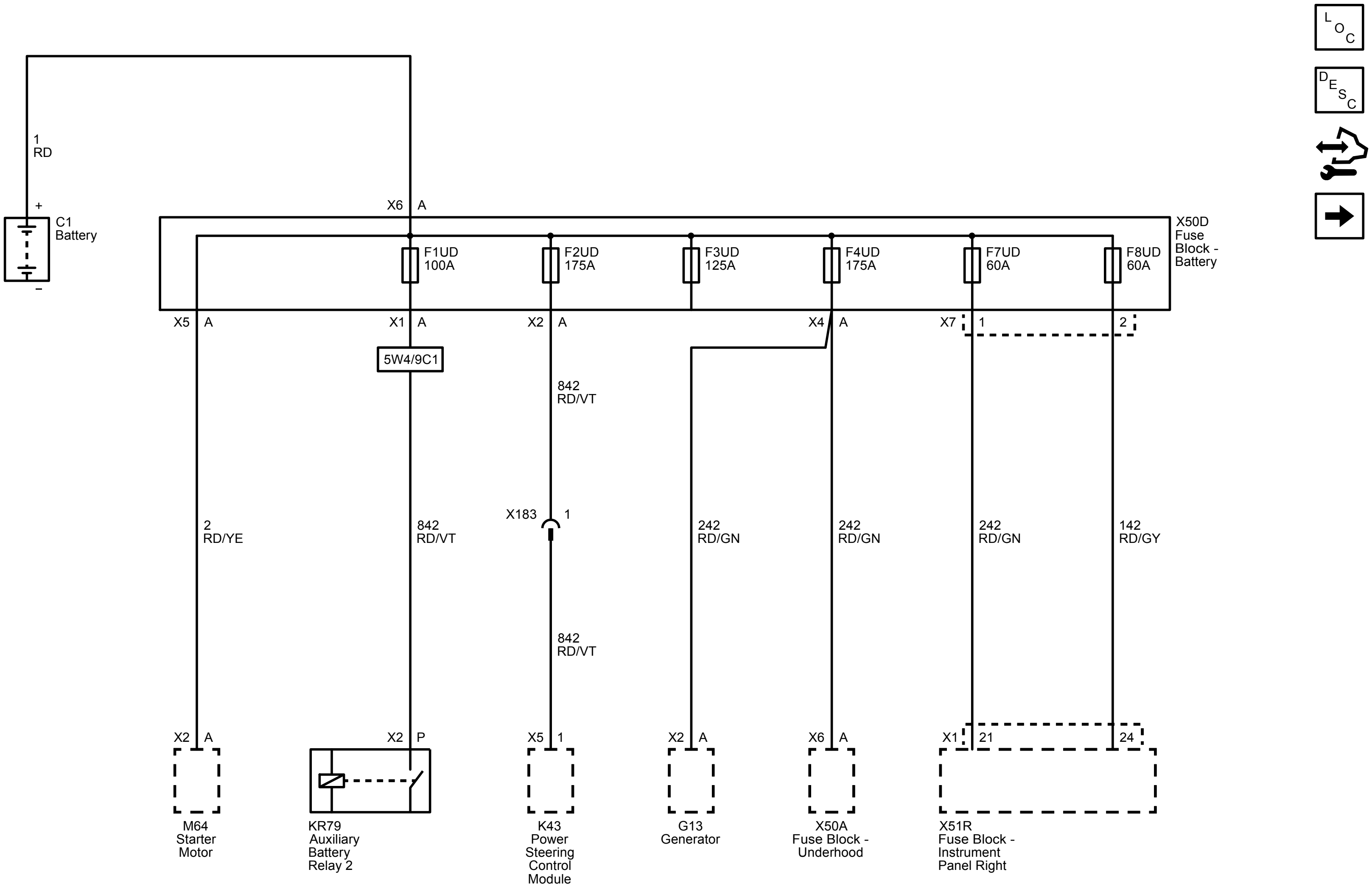
	Motor
	Motor with PTC
	Antenna
	Speaker
	Horn
	Microphone

	Airbag
	SIR Coil
	SIR Impact Sensor

Master Electrical Schematic Icons

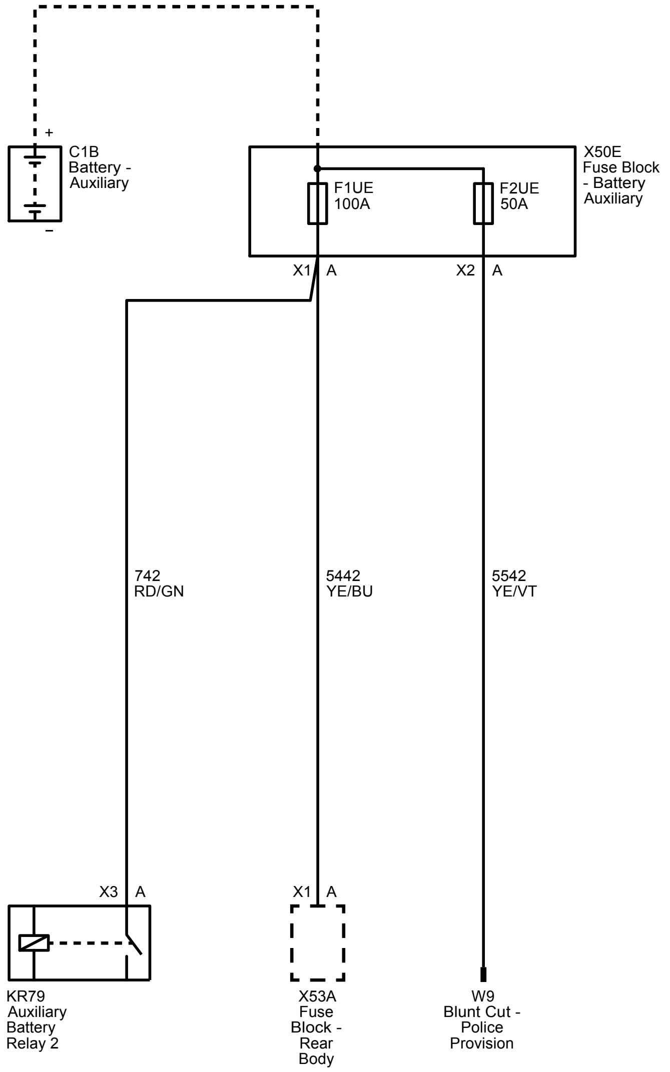
Icon	Icon Definition
	**Warning: When performing service on or near the SIR components or the SIR wiring, the SIR system must be disabled. Refer to SIR Disabling and Enabling . Failure to observe the correct procedure could cause deployment of the SIR components, personal injury, or unnecessary SIR system repairs.**
	**Warning: The connector at the Inflatable Restraint Module cannot be disconnected or removed without damage to the module. If the connector is removed from the module, the entire module with harness must be replaced.**
	**Warning: The high intensity discharge system produces high voltage and current. To reduce the risk of severe shocks and burns:** • **Never open the high intensity discharge system ballast or the arc tube assembly starter.** • **Never probe between the high intensity discharge system ballast output connector and the arc tube assembly.**
	**Note:** The Configurable Provision Relays can be controlled by either the B+ Bus or the Ignition Main Relay Bus depending on the position of the installed fuse that supplies the relays. • Configurable Provision Relays 1 and 2 are controlled together by one fuse (F77UA: B+ or F78UA: Ignition Main Relay) • Configurable Provision Relays 3 and 4 are controlled together by one fuse (F69UA: B+ or F70UA: Ignition Main Relay) Do not install a fuse in both the B+ Bus position and the Ignition Main Relay position at the same time or the relay will not function as intended.
	**Note:** Twisted wires provide an effective shield that helps protect sensitive electronic components from electrical interference. In order to prevent electrical interference from degrading the performance of the connected components, you must maintain the proper specification when making any repairs to the twisted wires shown : • The wires must be twisted a minimum of 10 turns per 31 cm (12 in) as measured anywhere along the length of the wires. • The outside diameter of the twisted wires must not exceed 6.0 mm (0.25 in).

X50D Fuse Block - Battery

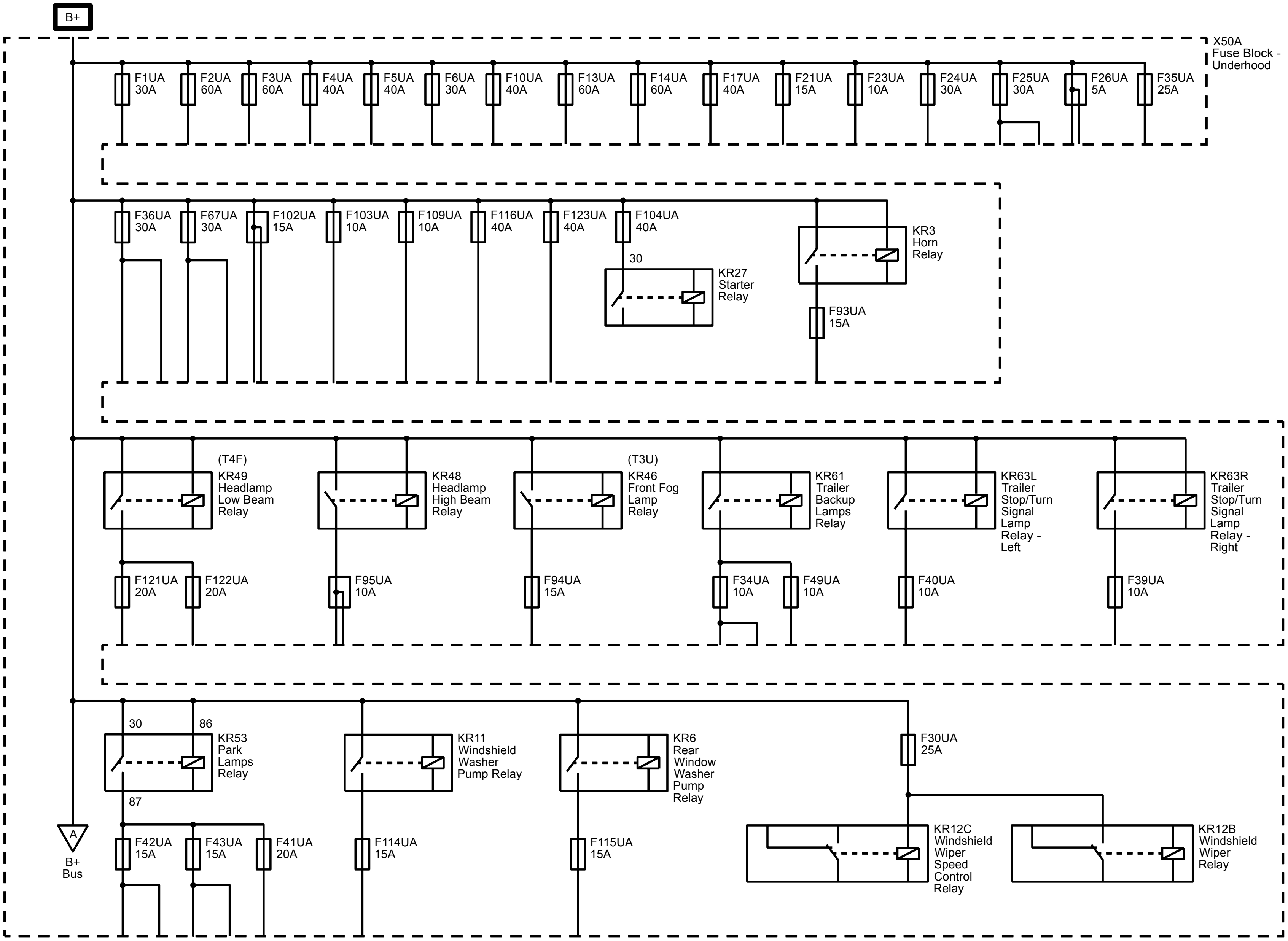


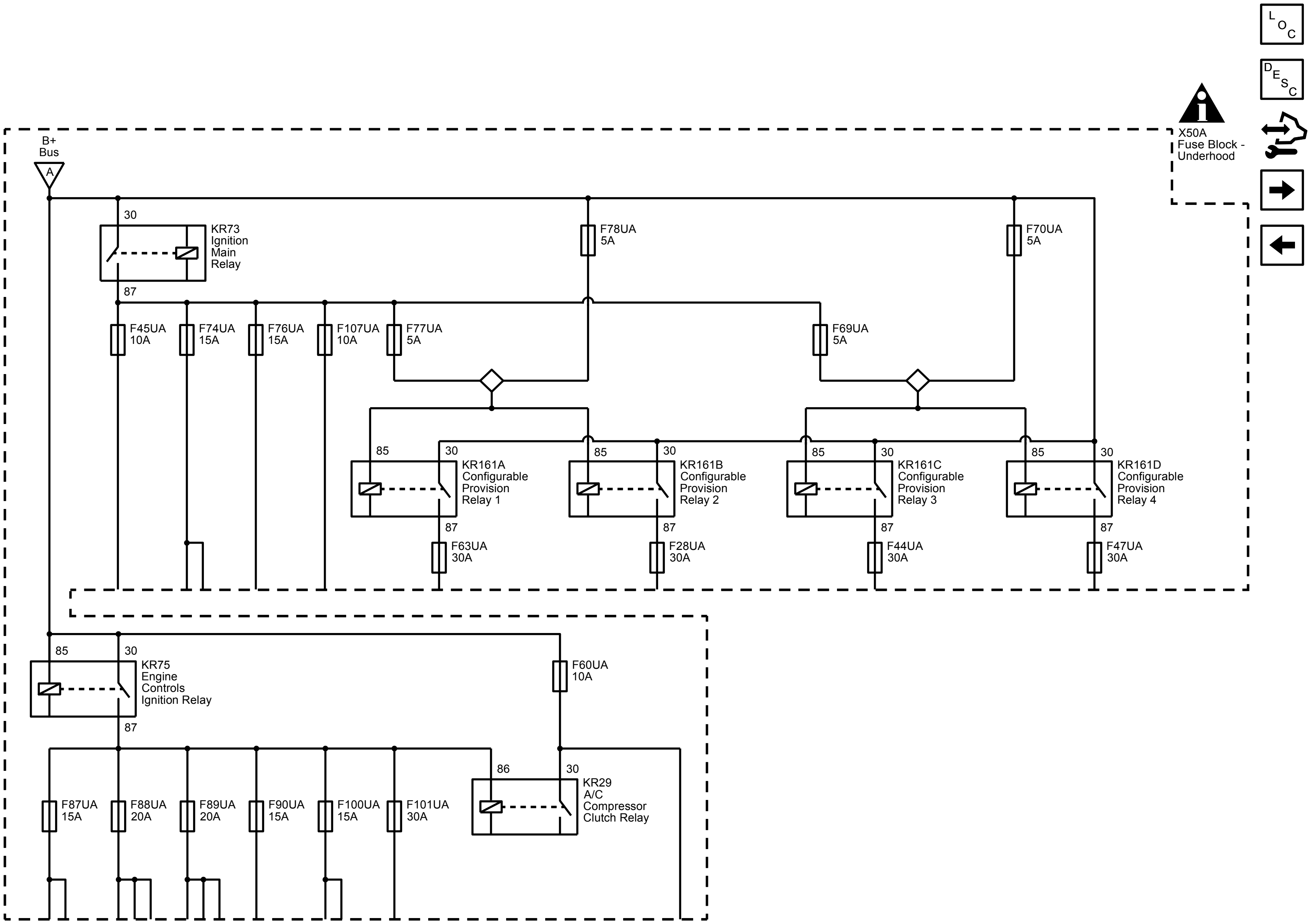
1
RD
+
C1 Battery
–
X6 A
X50D Fuse Block - Battery
F1UD 100A
F2UD 175A
F3UD 125A
F4UD 175A
F7UD 60A
F8UD 60A
X5 A
X1 A
X2 A
X4 A
X7 1
2
5W4/9C1
842 RD/VT
X183 1
2 RD/YE
842 RD/VT
242 RD/GN
242 RD/GN
242 RD/GN
142 RD/GY
842 RD/VT
X2 A
X2 P
X5 1
X2 A
X6 A
X1 21
24
M64 Starter Motor
KR79 Auxiliary Battery Relay 2
K43 Power Steering Control Module
G13 Generator
X50A Fuse Block - Underhood
X51R Fuse Block - Instrument Panel Right

X50E Fuse Block - Battery Auxiliary (5W4 or 9C1)

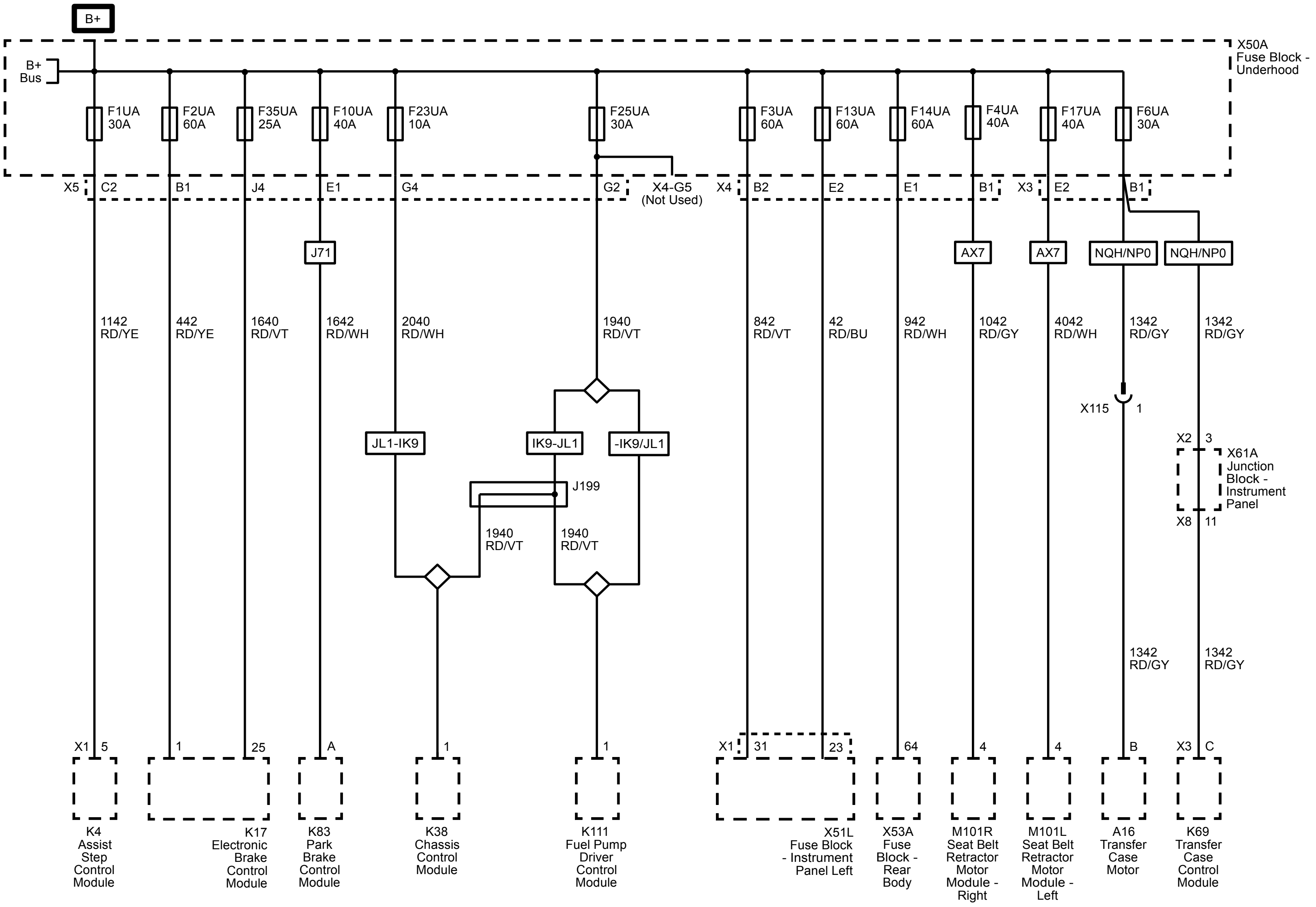

+
C1B
Battery -
Auxiliary
–
X50E
Fuse Block
- Battery
Auxiliary
F1UE
100A
F2UE
50A
X1
A
X2
A
742
RD/GN
5442
YE/BU
5542
YE/VT
X3
A
X1
A
KR79
Auxiliary
Battery
Relay 2
X53A
Fuse
Block -
Rear
Body
W9
Blunt Cut -
Police
Provision

B+ Bus X50A Fuse Block - Underhood (1 of 2)


B+
X50A
Fuse Block -
Underhood
F1UA 30A
F2UA 60A
F3UA 60A
F4UA 40A
F5UA 40A
F6UA 30A
F10UA 40A
F13UA 60A
F14UA 60A
F17UA 40A
F21UA 15A
F23UA 10A
F24UA 30A
F25UA 30A
F26UA 5A
F35UA 25A
F36UA 30A
F67UA 30A
F102UA 15A
F103UA 10A
F109UA 10A
F116UA 40A
F123UA 40A
F104UA 40A
30
KR27 Starter Relay
KR3 Horn Relay
F93UA 15A
(T4F)
KR49 Headlamp Low Beam Relay
KR48 Headlamp High Beam Relay
(T3U)
KR46 Front Fog Lamp Relay
KR61 Trailer Backup Lamps Relay
KR63L Trailer Stop/Turn Signal Lamp Relay - Left
KR63R Trailer Stop/Turn Signal Lamp Relay - Right
F121UA 20A
F122UA 20A
F95UA 10A
F94UA 15A
F34UA 10A
F49UA 10A
F40UA 10A
F39UA 10A
30
86
KR53 Park Lamps Relay
87
KR11 Windshield Washer Pump Relay
KR6 Rear Window Washer Pump Relay
F30UA 25A
KR12C Windshield Wiper Speed Control Relay
KR12B Windshield Wiper Relay
A
B+ Bus
F42UA 15A
F43UA 15A
F41UA 20A
F114UA 15A
F115UA 15A

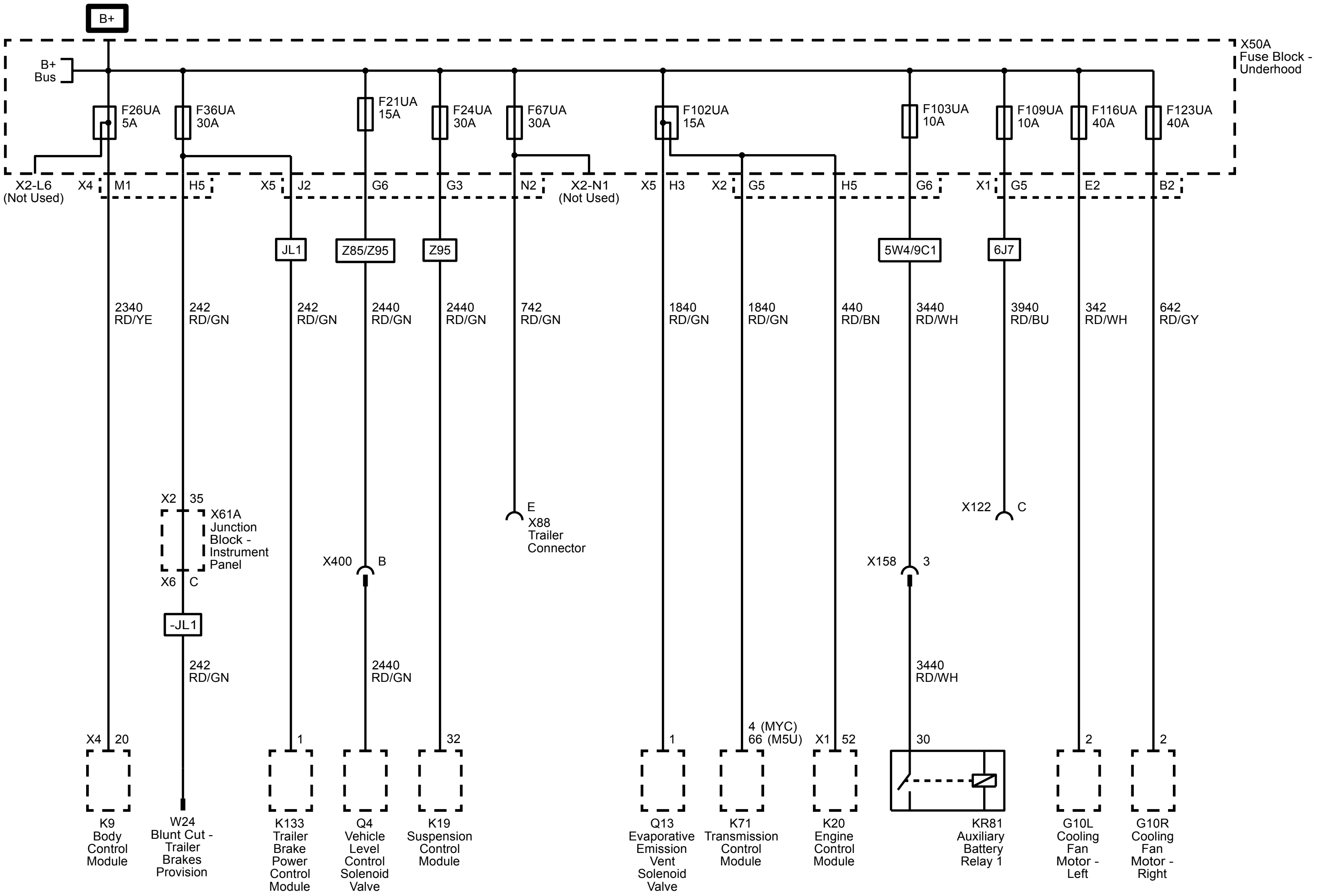

L O C
D E S C
X50A
Fuse Block -
Underhood
B+
Bus
A
30
KR73
Ignition
Main
Relay
87
F78UA
5A
F70UA
5A
F45UA
10A
F74UA
15A
F76UA
15A
F107UA
10A
F77UA
5A
F69UA
5A
85
30
KR161A
Configurable
Provision
Relay 1
87
F63UA
30A
85
30
KR161B
Configurable
Provision
Relay 2
87
F28UA
30A
85
30
KR161C
Configurable
Provision
Relay 3
87
F44UA
30A
85
30
KR161D
Configurable
Provision
Relay 4
87
F47UA
30A
85
30
KR75
Engine
Controls
Ignition Relay
87
F60UA
10A
F87UA
15A
F88UA
20A
F89UA
20A
F90UA
15A
F100UA
15A
F101UA
30A
86
30
KR29
A/C
Compressor
Clutch Relay

F1UA, F2UA, F3UA, F4UA, F6UA, F10UA, F13UA, F14UA, F17UA, F23UA, F25UA, and F35UA

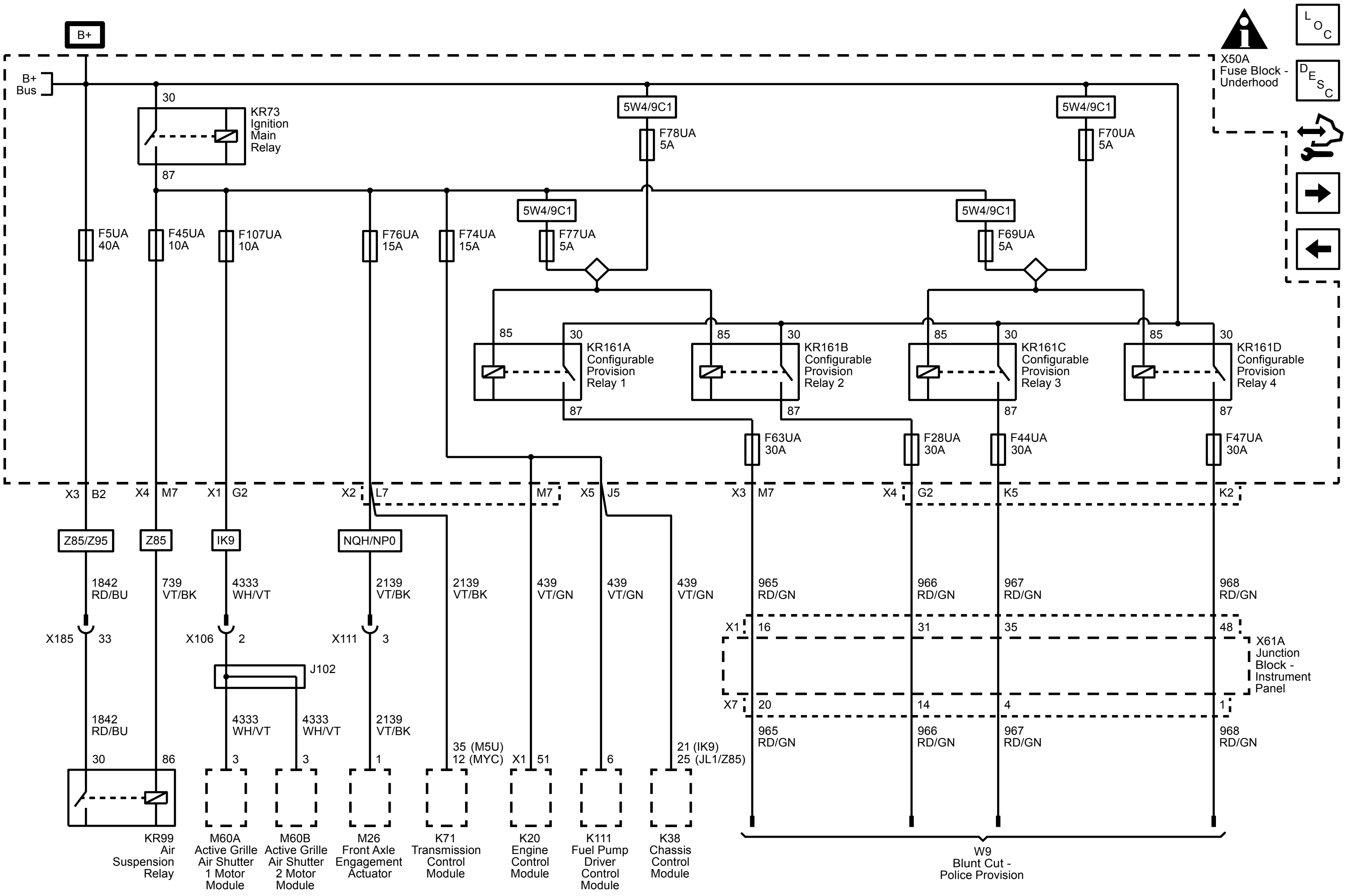


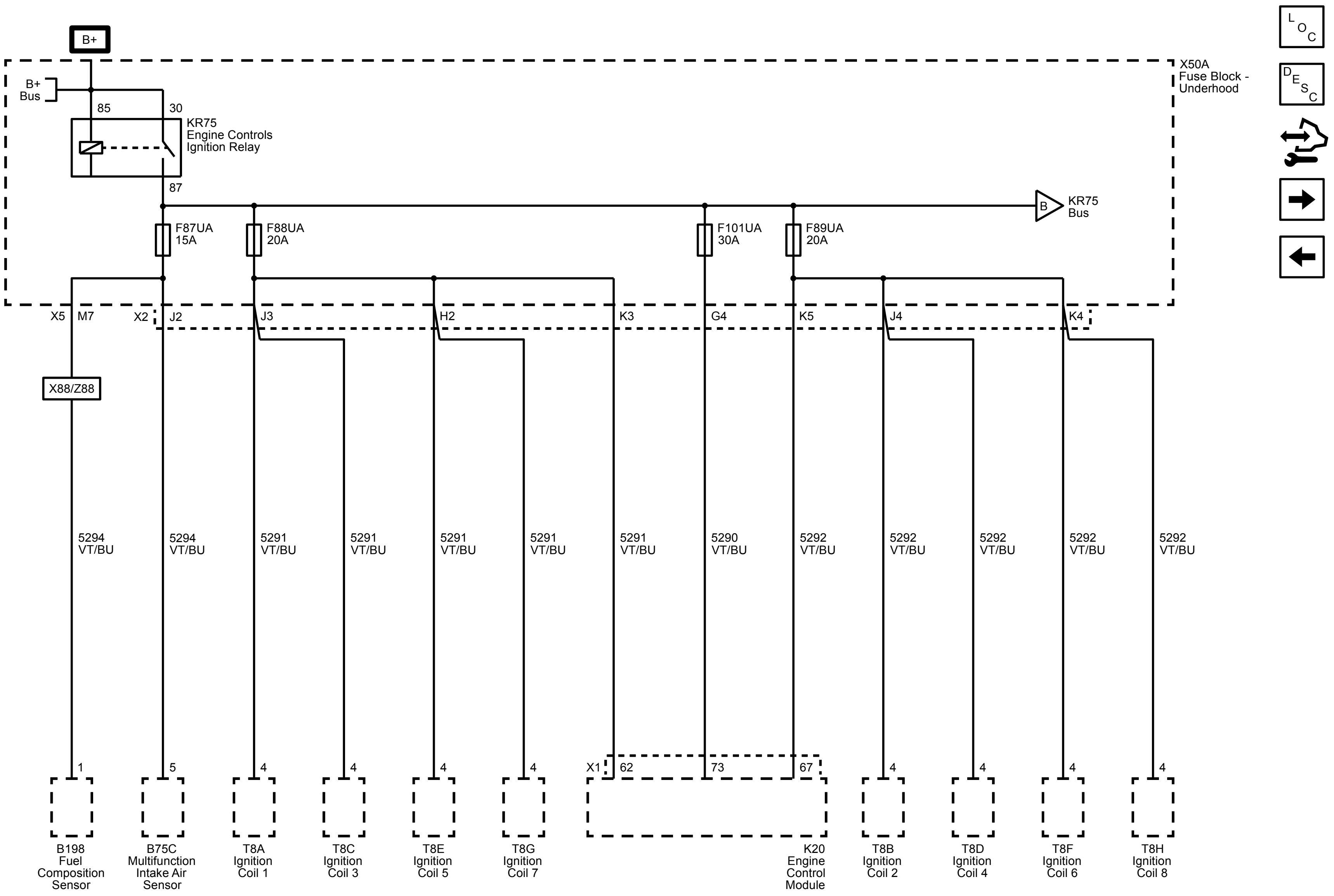
B+
B+ Bus
X50A Fuse Block - Underhood
F1UA 30A
F2UA 60A
F35UA 25A
F10UA 40A
F23UA 10A
F25UA 30A
F3UA 60A
F13UA 60A
F14UA 60A
F4UA 40A
F17UA 40A
F6UA 30A
X5
C2
B1
J4
E1
G4
G2
X4-G5 (Not Used)
X4
B2
E2
E1
B1
X3
E2
B1
J71
AX7
AX7
NQH/NP0
NQH/NP0
1142 RD/YE
442 RD/YE
1640 RD/VT
1642 RD/WH
2040 RD/WH
1940 RD/VT
842 RD/VT
42 RD/BU
942 RD/WH
1042 RD/GY
4042 RD/WH
1342 RD/GY
1342 RD/GY
X115
1
X2
3
X61A Junction Block - Instrument Panel
X8
11
JL1-IK9
IK9-JL1
-IK9/JL1
J199
1940 RD/VT
1940 RD/VT
1342 RD/GY
1342 RD/GY
X1
5
1
25
A
1
1
X1
31
23
64
4
4
B
X3
C
K4 Assist Step Control Module
K17 Electronic Brake Control Module
K83 Park Brake Control Module
K38 Chassis Control Module
K111 Fuel Pump Driver Control Module
X51L Fuse Block - Instrument Panel Left
X53A Fuse Block - Rear Body
M101R Seat Belt Retractor Motor Module - Right
M101L Seat Belt Retractor Motor Module - Left
A16 Transfer Case Motor
K69 Transfer Case Control Module

F21UA, F24UA, F26UA, F36UA, F67UA, F102UA, F103UA, F109UA, F116UA and F123UA

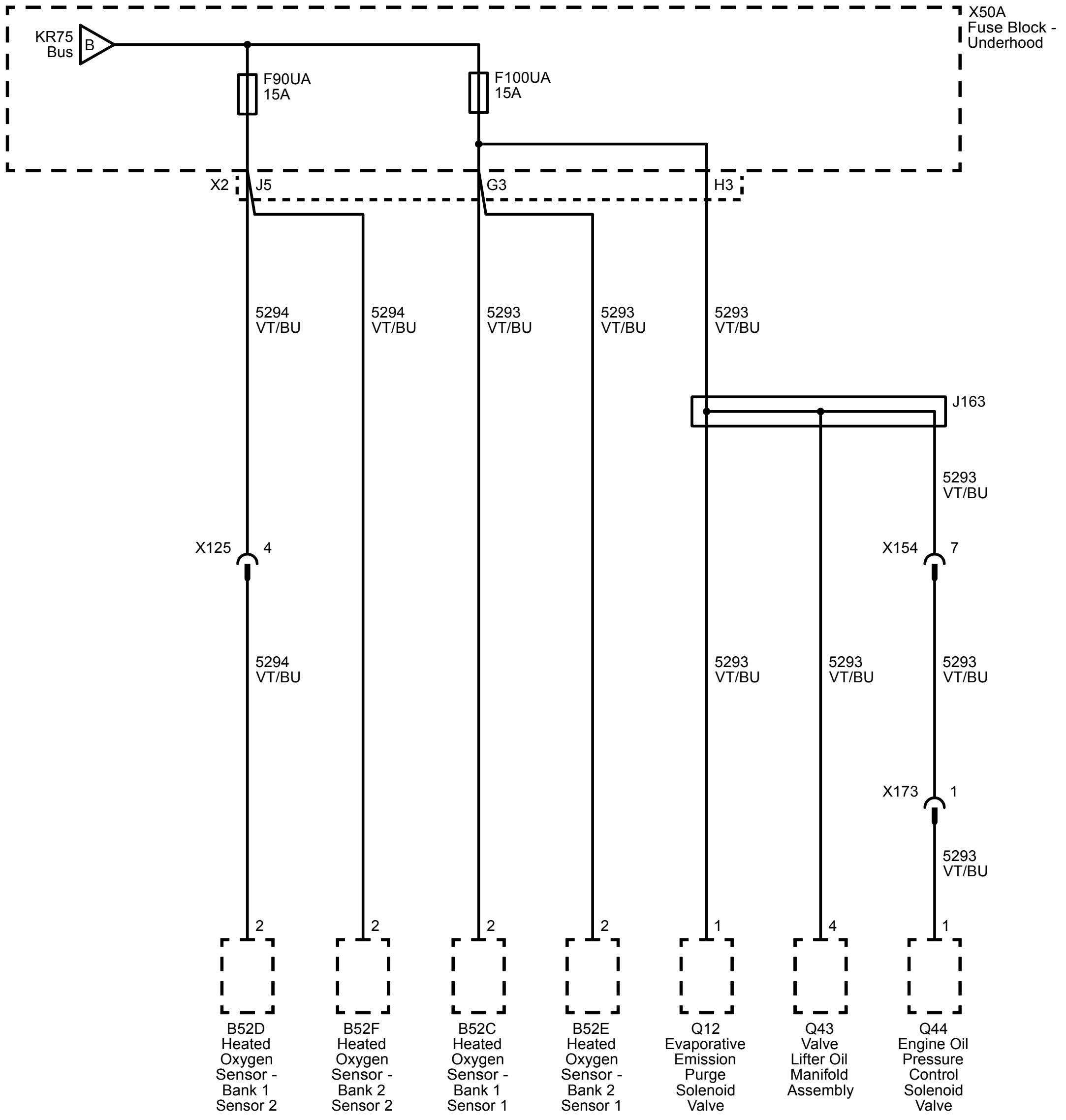

B+
B+ Bus
X50A Fuse Block - Underhood
F26UA 5A
F36UA 30A
F21UA 15A
F24UA 30A
F67UA 30A
F102UA 15A
F103UA 10A
F109UA 10A
F116UA 40A
F123UA 40A
X2-L6 (Not Used)
X4
M1
H5
X5
J2
G6
G3
N2
X2-N1 (Not Used)
X5
H3
X2
G5
H5
G6
X1
G5
E2
B2
JL1
Z85/Z95
Z95
5W4/9C1
6J7
2340 RD/YE
242 RD/GN
242 RD/GN
2440 RD/GN
2440 RD/GN
742 RD/GN
1840 RD/GN
1840 RD/GN
440 RD/BN
3440 RD/WH
3940 RD/BU
342 RD/WH
642 RD/GY
X2 35
X61A Junction Block - Instrument Panel
X6 C
-JL1
242 RD/GN
X400 B
2440 RD/GN
E
X88 Trailer Connector
X158 3
3440 RD/WH
X122 C
X4 20
1
32
1
4 (MYC) 66 (M5U)
X1 52
30
2
2
K9 Body Control Module
W24 Blunt Cut - Trailer Brakes Provision
K133 Trailer Brake Power Control Module
Q4 Vehicle Level Control Solenoid Valve
K19 Suspension Control Module
Q13 Evaporative Emission Vent Solenoid Valve
K71 Transmission Control Module
K20 Engine Control Module
KR81 Auxiliary Battery Relay 1
G10L Cooling Fan Motor - Left
G10R Cooling Fan Motor - Right

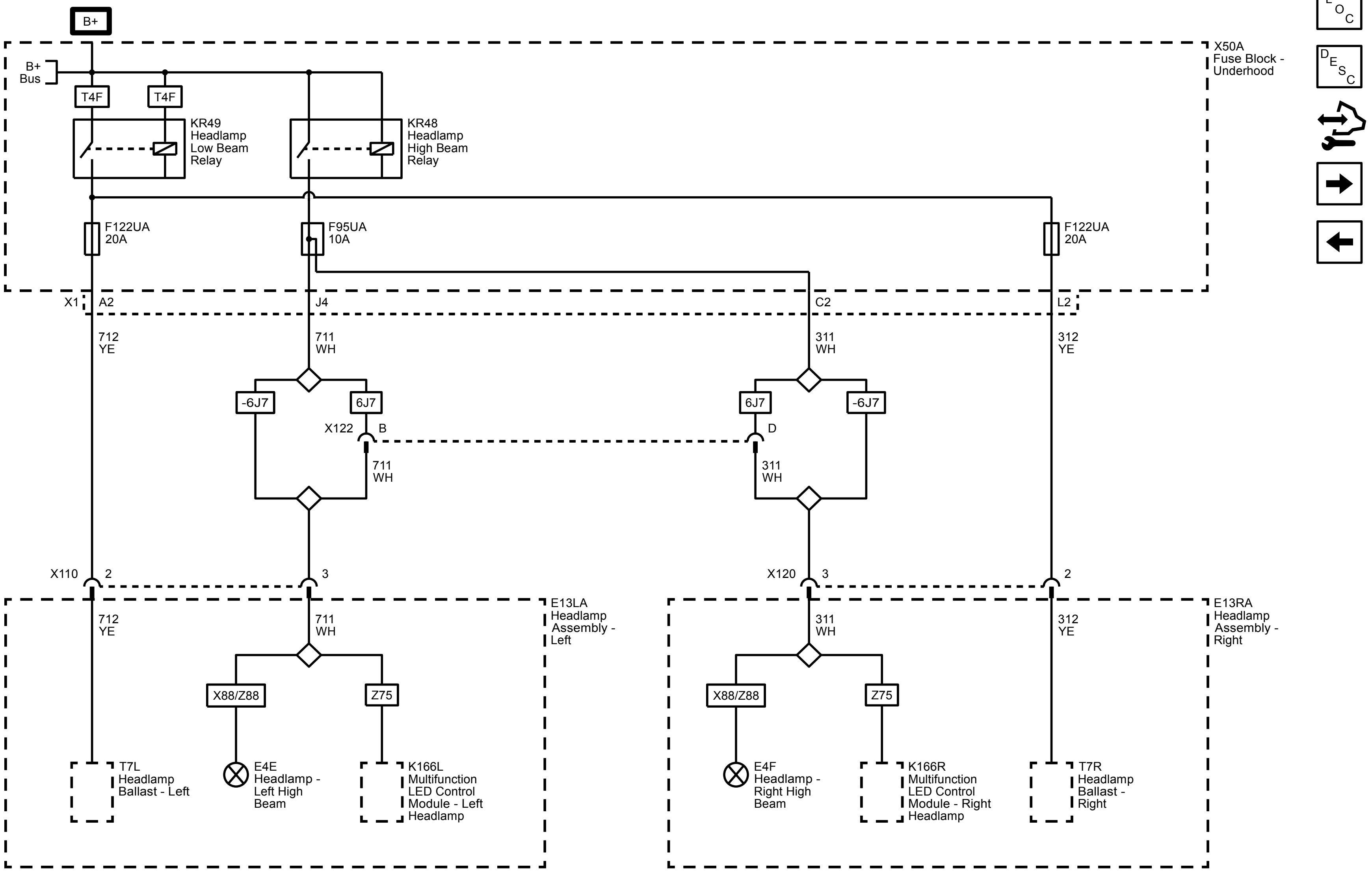
F5UA, F28UA, F44UA, F45UA, F47UA, F63UA, F69UA, F70UA, F74UA, F76UA, F77UA, F78UA and F107UA

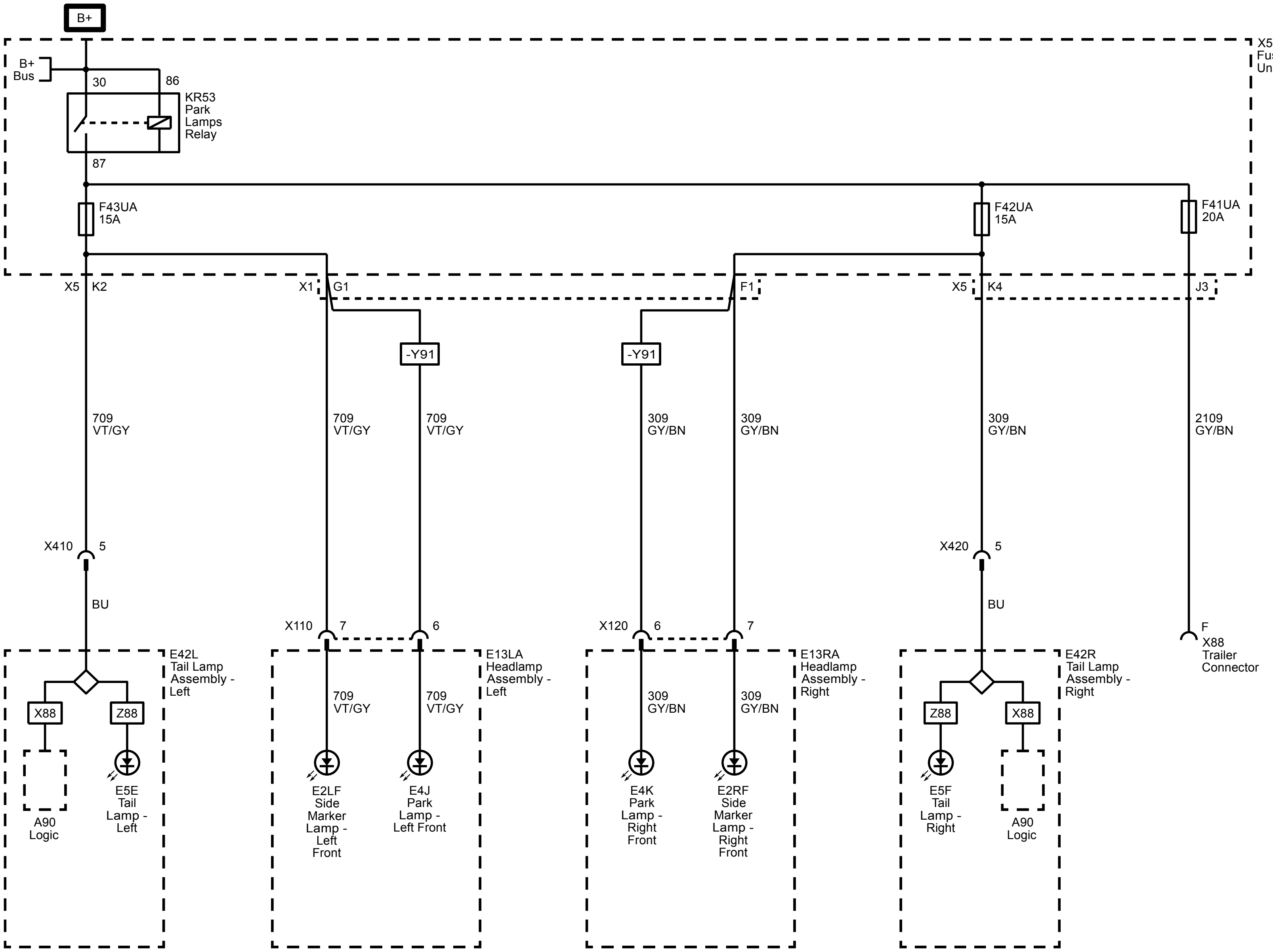

B+
B+ Bus
X50A Fuse Block - Underhood
L O C
D E S C
30
KR73 Ignition Main Relay
87
5W4/9C1
F78UA 5A
5W4/9C1
F70UA 5A
5W4/9C1
F77UA 5A
5W4/9C1
F69UA 5A
F5UA 40A
F45UA 10A
F107UA 10A
F76UA 15A
F74UA 15A
85
30
KR161A Configurable Provision Relay 1
87
85
30
KR161B Configurable Provision Relay 2
87
85
30
KR161C Configurable Provision Relay 3
87
85
30
KR161D Configurable Provision Relay 4
87
F63UA 30A
F28UA 30A
F44UA 30A
F47UA 30A
X3 B2
X4 M7
X1 G2
X2 L7
M7
X5 J5
X3 M7
X4 G2
K5
K2
Z85/Z95
Z85
IK9
NQH/NP0
1842 RD/BU
739 VT/BK
4333 WH/VT
2139 VT/BK
2139 VT/BK
439 VT/GN
439 VT/GN
439 VT/GN
965 RD/GN
966 RD/GN
967 RD/GN
968 RD/GN
X185 33
X106 2
X111 3
X1 16
31
35
48
X61A Junction Block - Instrument Panel
X7 20
14
4
1
J102
1842 RD/BU
4333 WH/VT
4333 WH/VT
2139 VT/BK
965 RD/GN
966 RD/GN
967 RD/GN
968 RD/GN
30
86
3
3
1
35 (M5U)
12 (MYC)
X1 51
6
21 (IK9)
25 (JL1/Z85)
KR99 Air Suspension Relay
M60A Active Grille Air Shutter 1 Motor Module
M60B Active Grille Air Shutter 2 Motor Module
M26 Front Axle Engagement Actuator
K71 Transmission Control Module
K20 Engine Control Module
K111 Fuel Pump Driver Control Module
K38 Chassis Control Module
W9 Blunt Cut - Police Provision


B+
B+ Bus
85
30
KR75 Engine Controls Ignition Relay
87
X50A Fuse Block - Underhood
L O C
D E S C
KR75 Bus
B
F87UA 15A
F88UA 20A
F101UA 30A
F89UA 20A
X5
M7
X2
J2
J3
H2
K3
G4
K5
J4
K4
X88/Z88
5294 VT/BU
5294 VT/BU
5291 VT/BU
5291 VT/BU
5291 VT/BU
5291 VT/BU
5291 VT/BU
5290 VT/BU
5292 VT/BU
5292 VT/BU
5292 VT/BU
5292 VT/BU
5292 VT/BU
1
5
4
4
4
4
X1
62
73
67
4
4
4
4
B198 Fuel Composition Sensor
B75C Multifunction Intake Air Sensor
T8A Ignition Coil 1
T8C Ignition Coil 3
T8E Ignition Coil 5
T8G Ignition Coil 7
K20 Engine Control Module
T8B Ignition Coil 2
T8D Ignition Coil 4
T8F Ignition Coil 6
T8H Ignition Coil 8

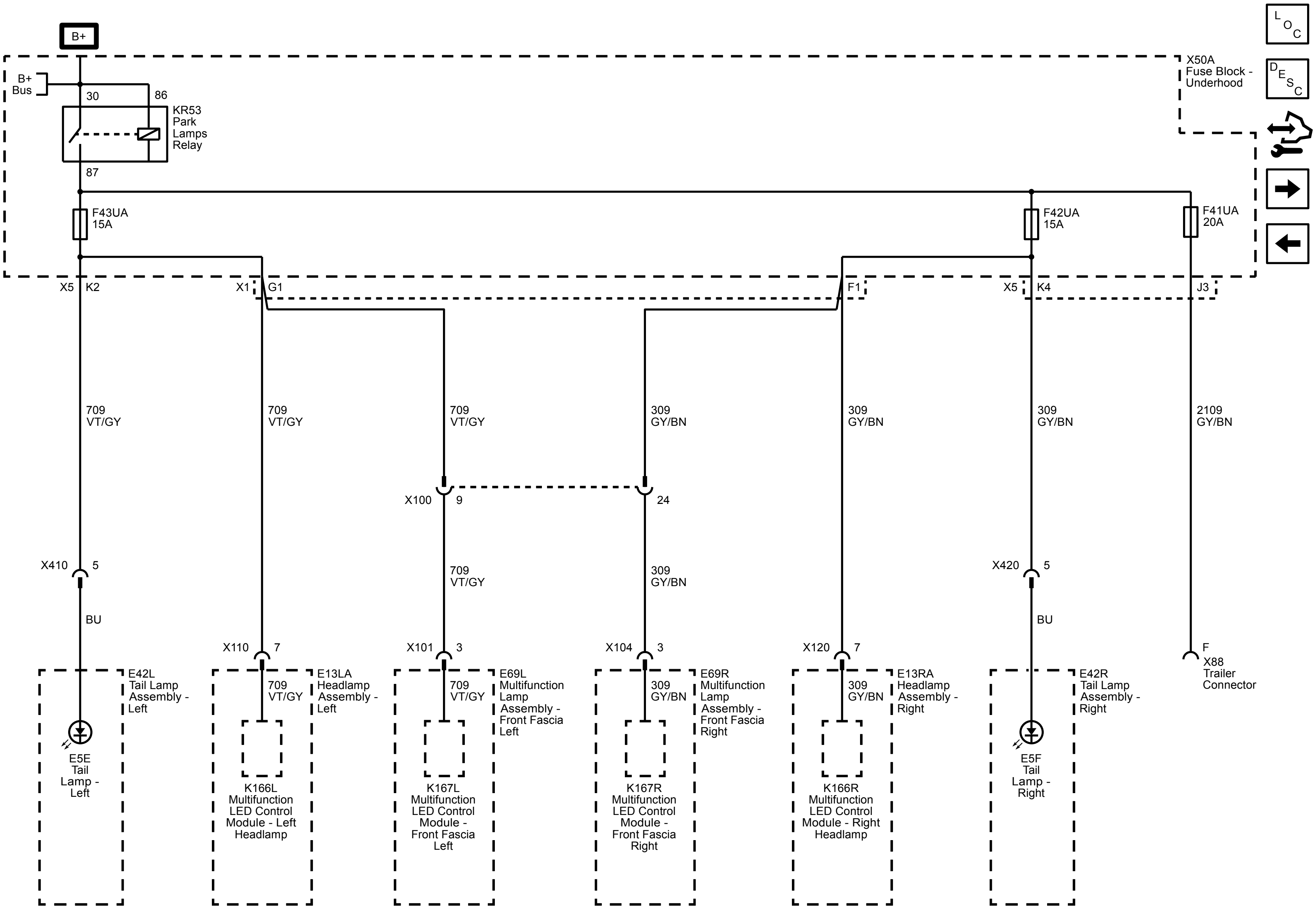
F90UA and F100UA


KR75
Bus
B
X50A
Fuse Block -
Underhood
F90UA
15A
F100UA
15A
X2
J5
G3
H3
5294
VT/BU
5294
VT/BU
5293
VT/BU
5293
VT/BU
5293
VT/BU
J163
5293
VT/BU
X125
4
X154
7
5294
VT/BU
5293
VT/BU
5293
VT/BU
5293
VT/BU
X173
1
5293
VT/BU
2
2
2
2
1
4
1
B52D
Heated
Oxygen
Sensor -
Bank 1
Sensor 2
B52F
Heated
Oxygen
Sensor -
Bank 2
Sensor 2
B52C
Heated
Oxygen
Sensor -
Bank 1
Sensor 1
B52E
Heated
Oxygen
Sensor -
Bank 2
Sensor 1
Q12
Evaporative
Emission
Purge
Solenoid
Valve
Q43
Valve
Lifter Oil
Manifold
Assembly
Q44
Engine Oil
Pressure
Control
Solenoid
Valve

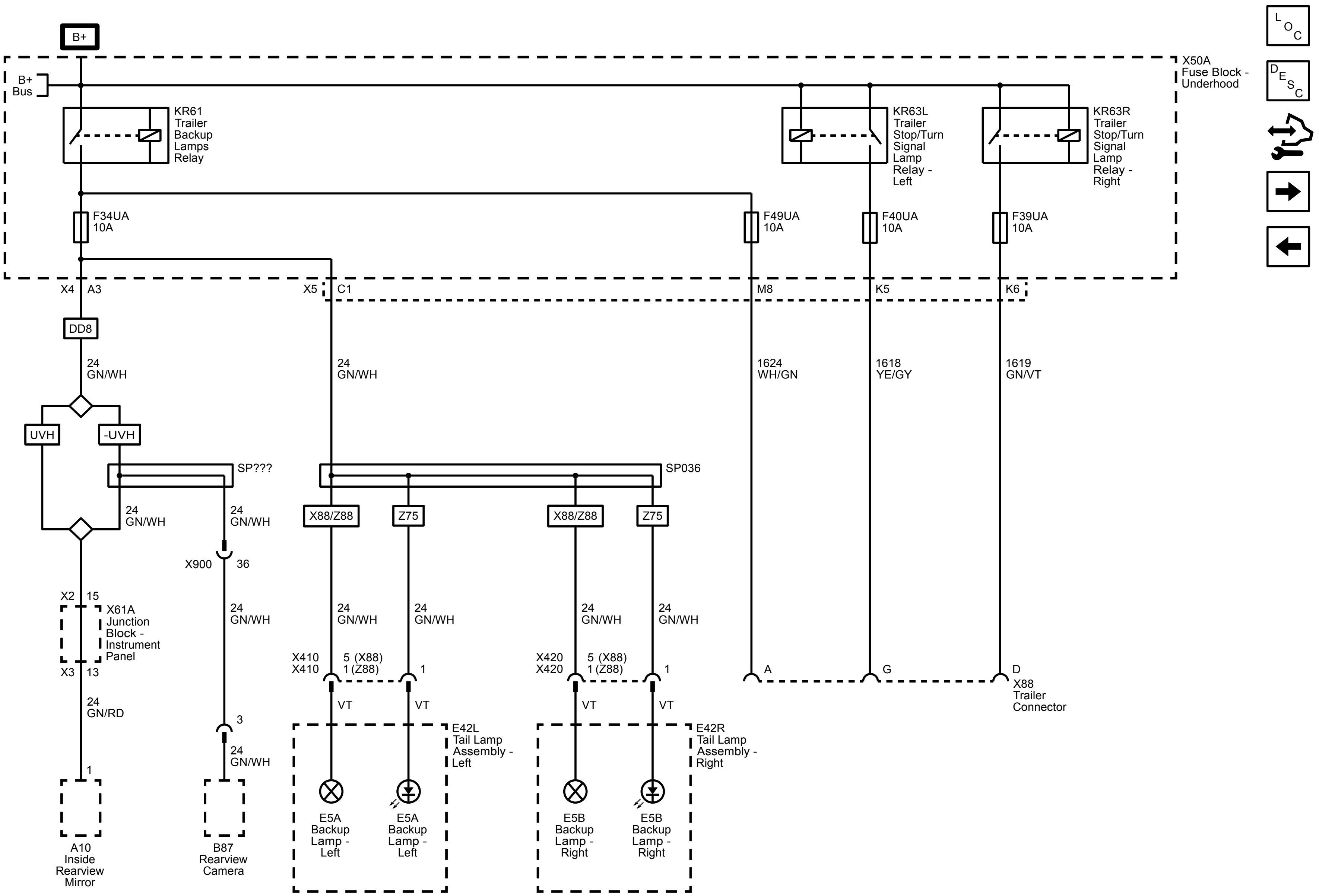

B+
B+ Bus
T4F
T4F
KR49 Headlamp Low Beam Relay
KR48 Headlamp High Beam Relay
X50A Fuse Block - Underhood
F122UA 20A
F95UA 10A
F122UA 20A
X1
A2
J4
C2
L2
712 YE
711 WH
311 WH
312 YE
-6J7
6J7
6J7
-6J7
X122
B
D
711 WH
311 WH
X110
2
3
X120
3
2
E13LA Headlamp Assembly - Left
E13RA Headlamp Assembly - Right
712 YE
711 WH
311 WH
312 YE
X88/Z88
Z75
X88/Z88
Z75
T7L Headlamp Ballast - Left
E4E Headlamp - Left High Beam
K166L Multifunction LED Control Module - Left Headlamp
E4F Headlamp - Right High Beam
K166R Multifunction LED Control Module - Right Headlamp
T7R Headlamp Ballast - Right
LOC
DESC


B+
B+ Bus
30
86
KR53 Park Lamps Relay
87
X50A Fuse Block - Underhood
F43UA 15A
F42UA 15A
F41UA 20A
X5 K2
X1 G1
F1
X5 K4
J3
-Y91
-Y91
709 VT/GY
709 VT/GY
709 VT/GY
309 GY/BN
309 GY/BN
309 GY/BN
2109 GY/BN
X410 5
BU
X420 5
BU
X110 7
6
X120 6
7
F X88 Trailer Connector
E42L Tail Lamp Assembly - Left
X88
Z88
A90 Logic
E5E Tail Lamp - Left
E13LA Headlamp Assembly - Left
709 VT/GY
709 VT/GY
E2LF Side Marker Lamp - Left Front
E4J Park Lamp - Left Front
E13RA Headlamp Assembly - Right
309 GY/BN
309 GY/BN
E4K Park Lamp - Right Front
E2RF Side Marker Lamp - Right Front
E42R Tail Lamp Assembly - Right
Z88
X88
E5F Tail Lamp - Right
A90 Logic

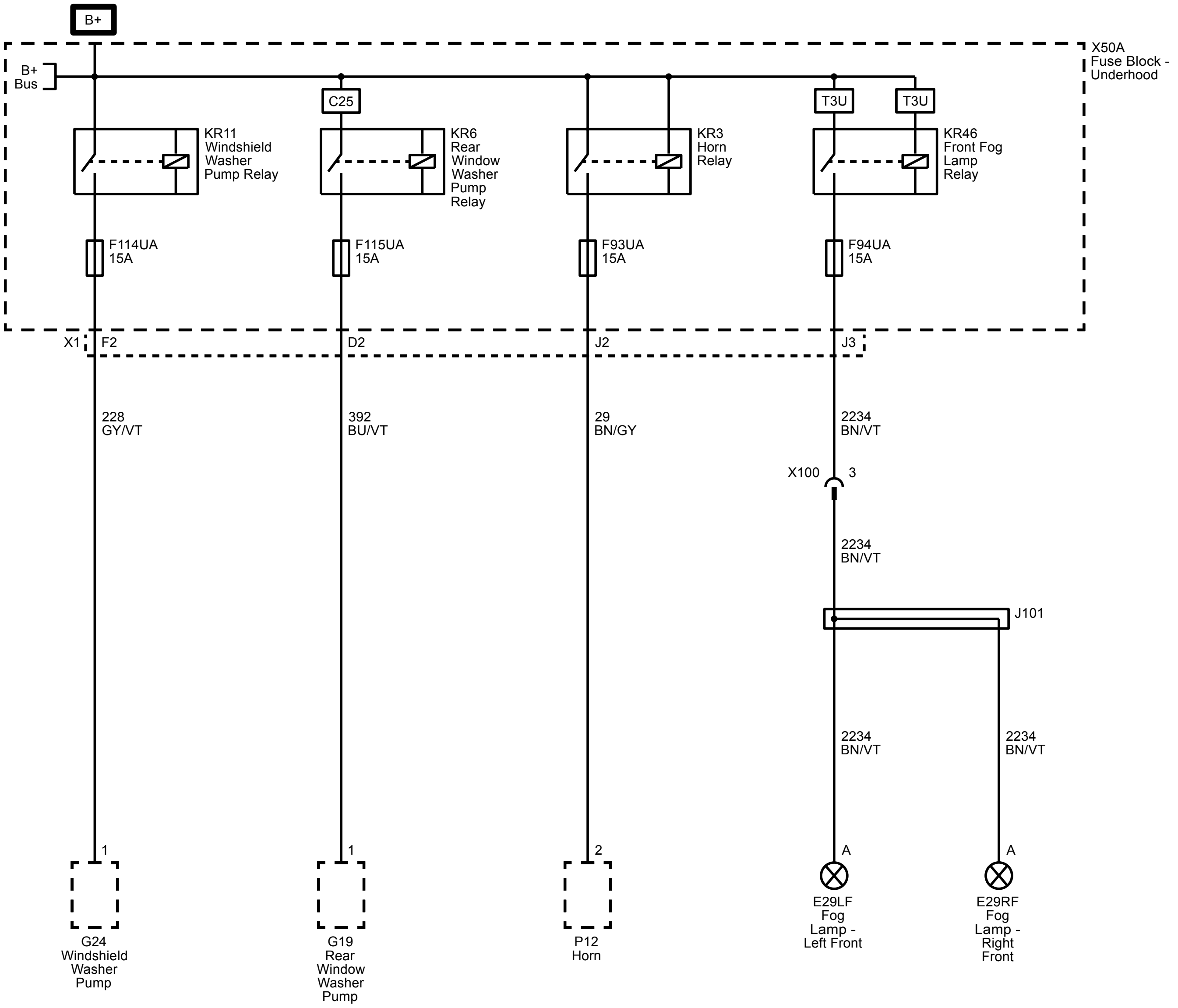
F41UA, F42UA and F43UA (Z75)

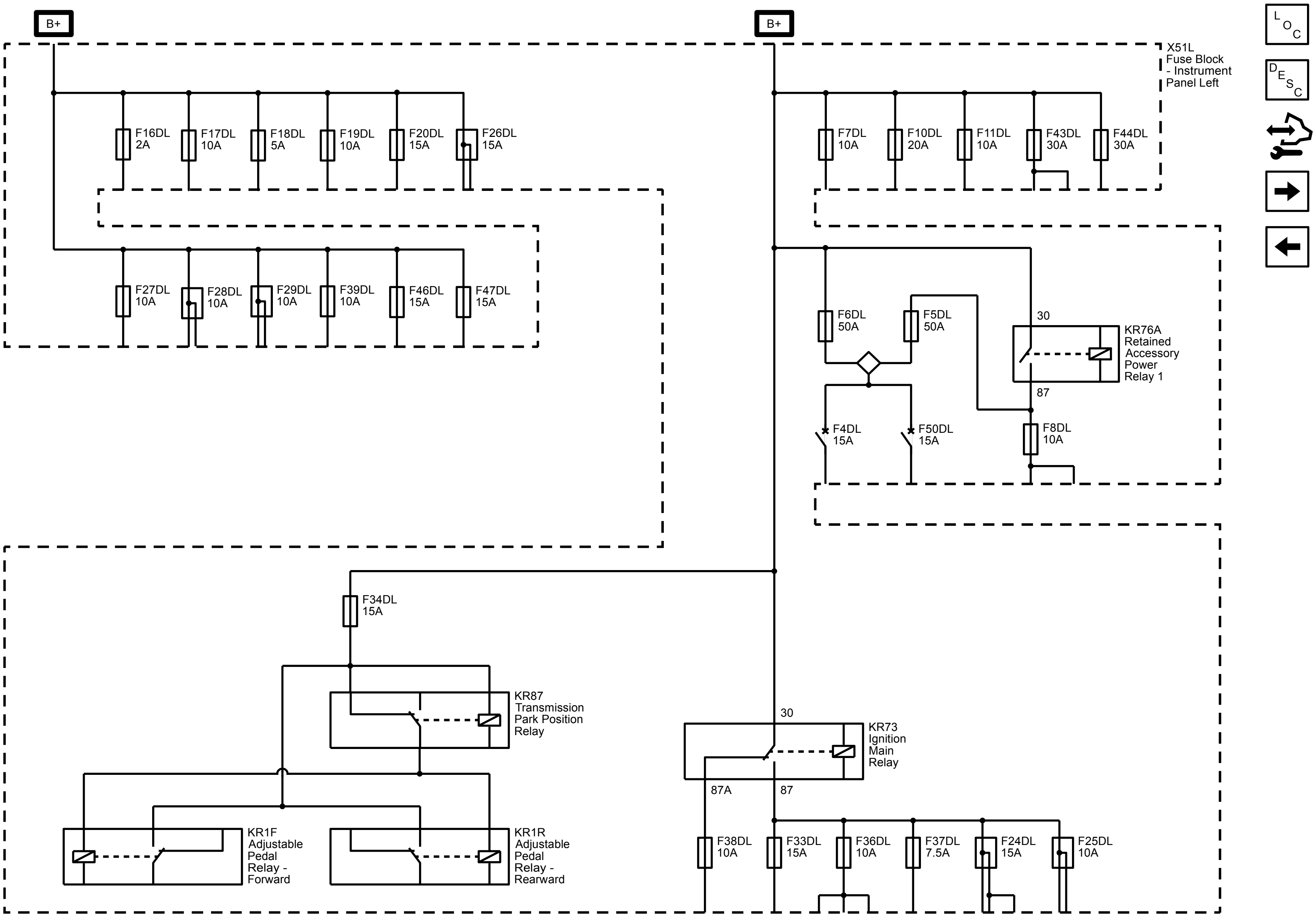


B+
B+ Bus
30
86
KR53 Park Lamps Relay
87
F43UA 15A
F42UA 15A
F41UA 20A
X50A Fuse Block - Underhood
LOC
DESC
X5 K2
X1 G1
F1
X5 K4
J3
709 VT/GY
709 VT/GY
709 VT/GY
309 GY/BN
309 GY/BN
309 GY/BN
2109 GY/BN
X100 9
24
709 VT/GY
309 GY/BN
X410 5
X420 5
BU
BU
X110 7
X101 3
X104 3
X120 7
F X88 Trailer Connector
E42L Tail Lamp Assembly - Left
E5E Tail Lamp - Left
E13LA Headlamp Assembly - Left
709 VT/GY
K166L Multifunction LED Control Module - Left Headlamp
E69L Multifunction Lamp Assembly - Front Fascia Left
709 VT/GY
K167L Multifunction LED Control Module - Front Fascia Left
E69R Multifunction Lamp Assembly - Front Fascia Right
309 GY/BN
K167R Multifunction LED Control Module - Front Fascia Right
E13RA Headlamp Assembly - Right
309 GY/BN
K166R Multifunction LED Control Module - Right Headlamp
E42R Tail Lamp Assembly - Right
E5F Tail Lamp - Right

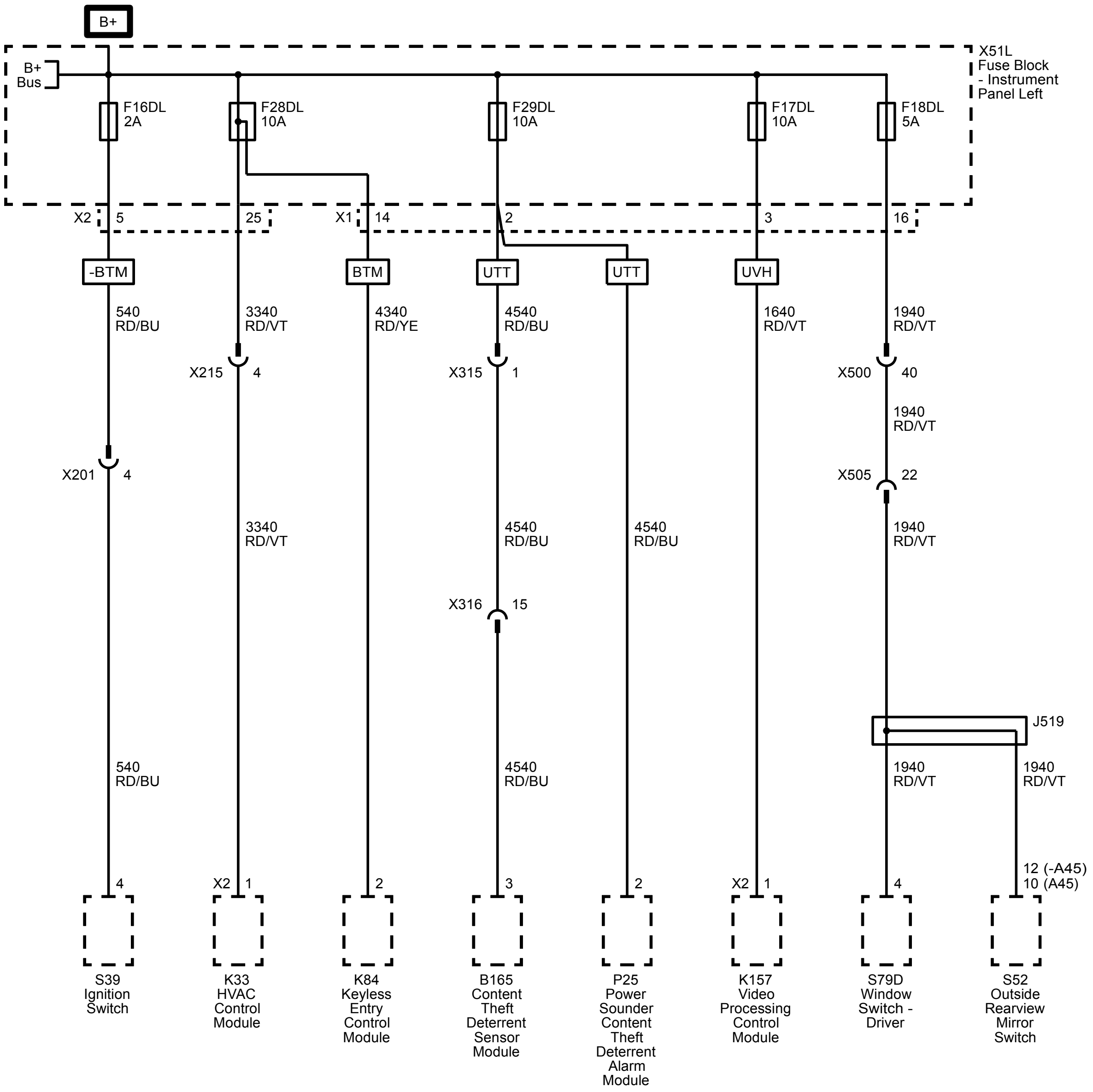

B+
B+ Bus
X50A Fuse Block - Underhood
KR61 Trailer Backup Lamps Relay
KR63L Trailer Stop/Turn Signal Lamp Relay - Left
KR63R Trailer Stop/Turn Signal Lamp Relay - Right
F34UA 10A
F49UA 10A
F40UA 10A
F39UA 10A
X4 A3
X5 C1
M8
K5
K6
DD8
24 GN/WH
1624 WH/GN
1618 YE/GY
1619 GN/VT
UVH
-UVH
SP???
SP036
X88/Z88
Z75
X900 36
X2 15
X61A Junction Block - Instrument Panel
X3 13
24 GN/RD
X410 X410 5 (X88) 1 (Z88)
X420 X420 5 (X88) 1 (Z88)
1
VT
3
A
G
D
X88 Trailer Connector
E42L Tail Lamp Assembly - Left
E42R Tail Lamp Assembly - Right
E5A Backup Lamp - Left
E5B Backup Lamp - Right
A10 Inside Rearview Mirror
B87 Rearview Camera
LOC
DESC

F93UA, F94UA, F114UA and F115UA

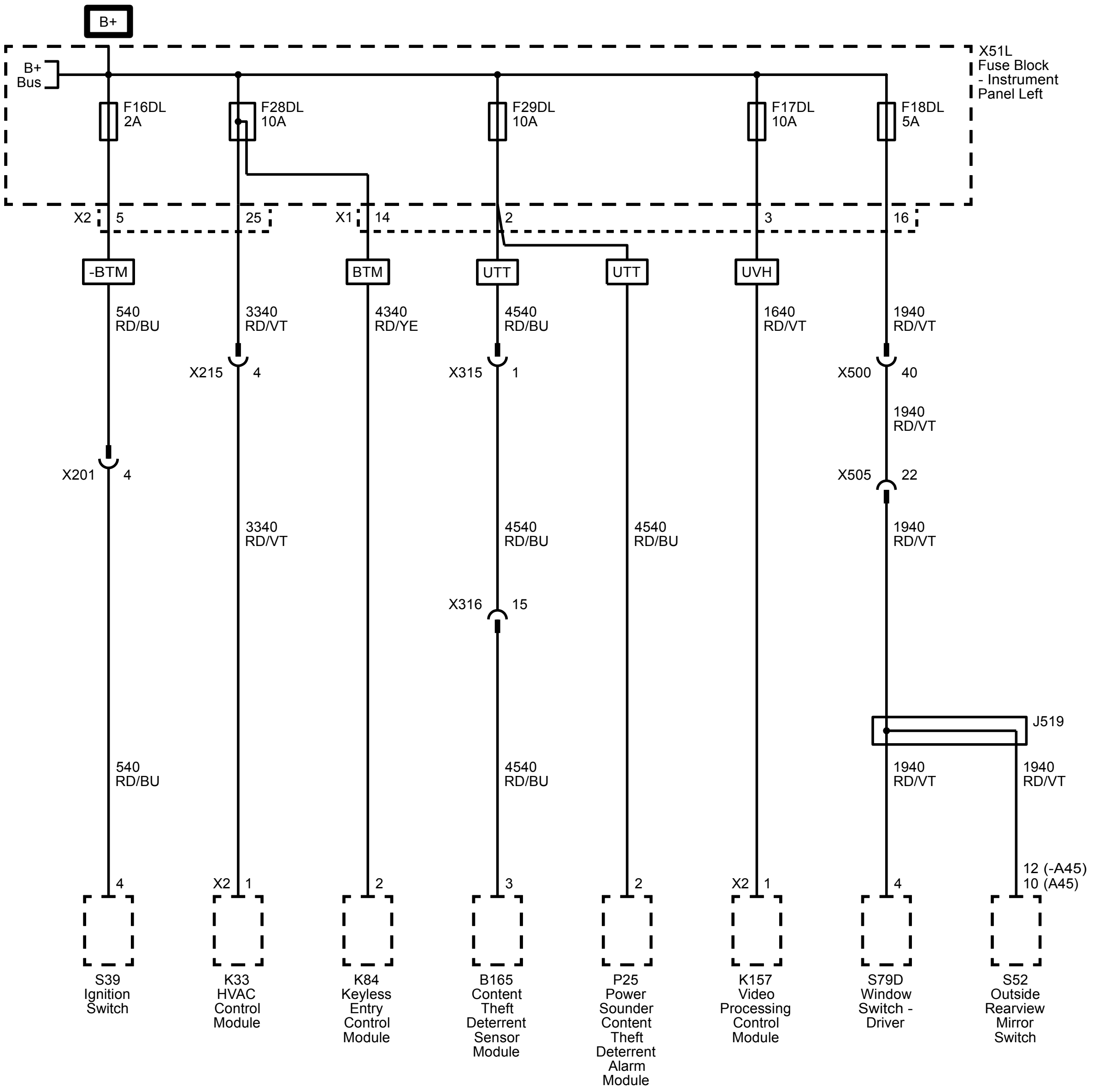

B+
B+ Bus
X50A Fuse Block - Underhood
C25
T3U
T3U
KR11 Windshield Washer Pump Relay
KR6 Rear Window Washer Pump Relay
KR3 Horn Relay
KR46 Front Fog Lamp Relay
F114UA 15A
F115UA 15A
F93UA 15A
F94UA 15A
X1
F2
D2
J2
J3
228 GY/VT
392 BU/VT
29 BN/GY
2234 BN/VT
X100
3
2234 BN/VT
J101
2234 BN/VT
2234 BN/VT
1
1
2
A
A
G24 Windshield Washer Pump
G19 Rear Window Washer Pump
P12 Horn
E29LF Fog Lamp - Left Front
E29RF Fog Lamp - Right Front


B+
B+
X51L
Fuse Block
- Instrument
Panel Left
F16DL 2A
F17DL 10A
F18DL 5A
F19DL 10A
F20DL 15A
F26DL 15A
F27DL 10A
F28DL 10A
F29DL 10A
F39DL 10A
F46DL 15A
F47DL 15A
F7DL 10A
F10DL 20A
F11DL 10A
F43DL 30A
F44DL 30A
F6DL 50A
F5DL 50A
30
KR76A Retained Accessory Power Relay 1
87
F4DL 15A
F50DL 15A
F8DL 10A
F34DL 15A
KR87 Transmission Park Position Relay
30
KR73 Ignition Main Relay
87A
87
KR1F Adjustable Pedal Relay - Forward
KR1R Adjustable Pedal Relay - Rearward
F38DL 10A
F33DL 15A
F36DL 10A
F37DL 7.5A
F24DL 15A
F25DL 10A

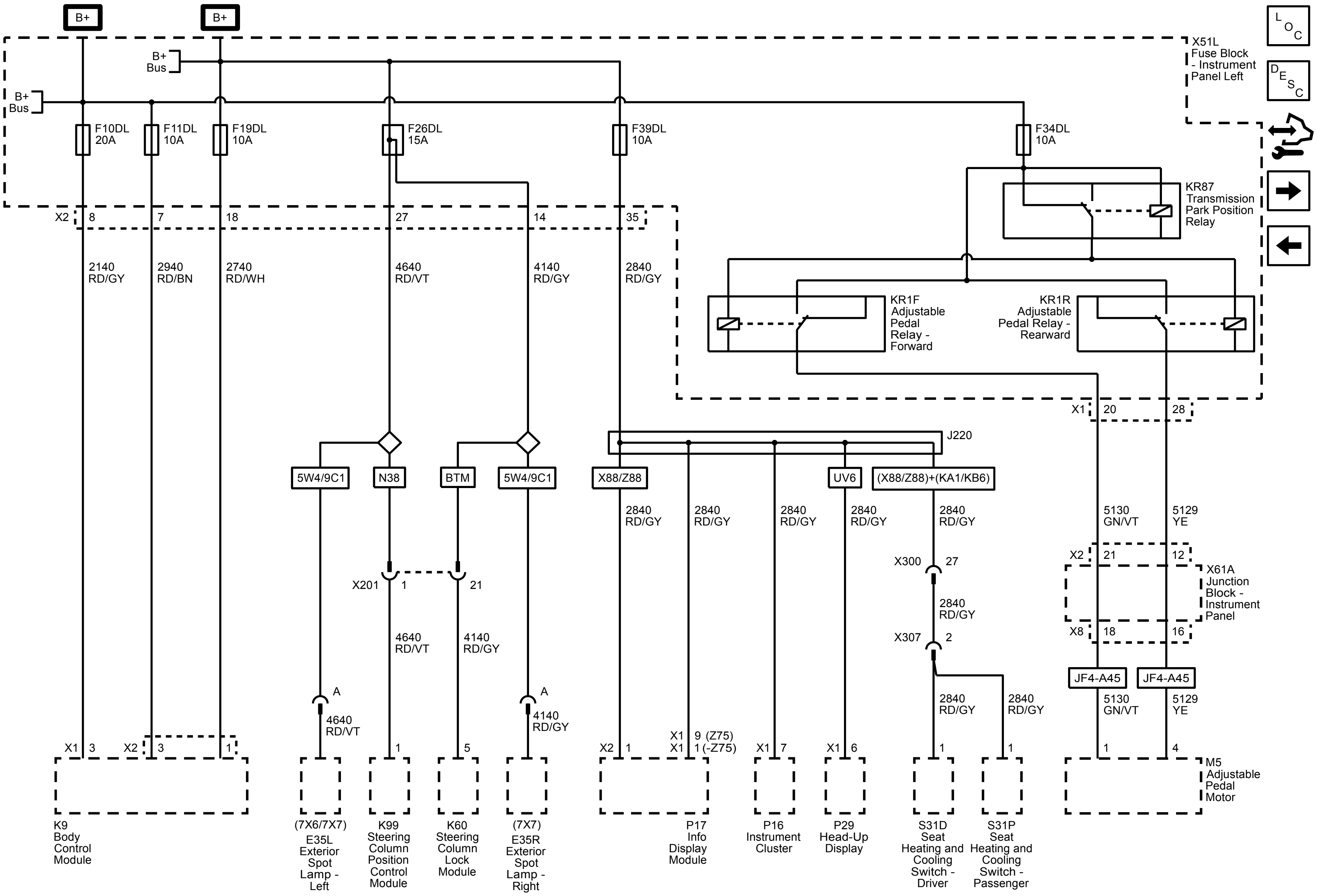
F16DL, F17DL, F18DL, F28DL and F29DL


B+
B+ Bus
X51L Fuse Block - Instrument Panel Left
F16DL 2A
F28DL 10A
F29DL 10A
F17DL 10A
F18DL 5A
X2 5
25
X1 14
2
3
16
-BTM
BTM
UTT
UTT
UVH
540 RD/BU
3340 RD/VT
4340 RD/YE
4540 RD/BU
1640 RD/VT
1940 RD/VT
X215 4
X315 1
X500 40
1940 RD/VT
X201 4
X505 22
3340 RD/VT
4540 RD/BU
4540 RD/BU
1940 RD/VT
X316 15
J519
540 RD/BU
4540 RD/BU
1940 RD/VT
1940 RD/VT
4
X2 1
2
3
2
X2 1
4
12 (-A45)
10 (A45)
S39 Ignition Switch
K33 HVAC Control Module
K84 Keyless Entry Control Module
B165 Content Theft Deterrent Sensor Module
P25 Power Sounder Content Theft Deterrent Alarm Module
K157 Video Processing Control Module
S79D Window Switch - Driver
S52 Outside Rearview Mirror Switch

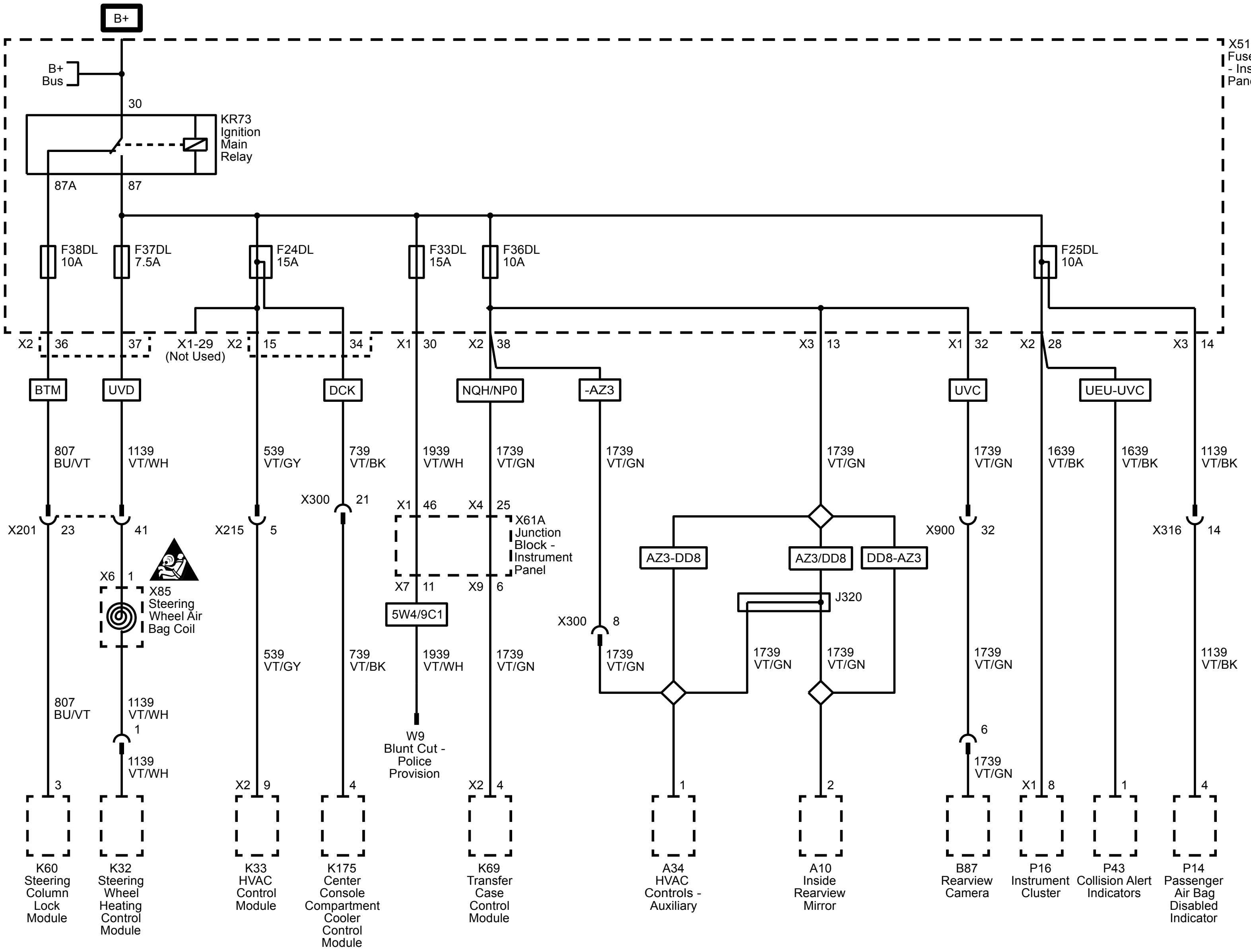
F20DL, F27DL, F46DL and F47DL


B+
B+ Bus
X51L Fuse Block - Instrument Panel Left
F16DL 2A
F28DL 10A
F29DL 10A
F17DL 10A
F18DL 5A
X2 5
25
X1 14
2
3
16
-BTM
BTM
UTT
UTT
UVH
540 RD/BU
3340 RD/VT
4340 RD/YE
4540 RD/BU
1640 RD/VT
1940 RD/VT
X215 4
X315 1
X500 40
1940 RD/VT
X201 4
X505 22
3340 RD/VT
4540 RD/BU
4540 RD/BU
1940 RD/VT
X316 15
J519
540 RD/BU
4540 RD/BU
1940 RD/VT
1940 RD/VT
4
X2 1
2
3
2
X2 1
4
12 (-A45)
10 (A45)
S39 Ignition Switch
K33 HVAC Control Module
K84 Keyless Entry Control Module
B165 Content Theft Deterrent Sensor Module
P25 Power Sounder Content Theft Deterrent Alarm Module
K157 Video Processing Control Module
S79D Window Switch - Driver
S52 Outside Rearview Mirror Switch

F10DL, F11DL, F19DL, F26DL, F34DL and F39DL

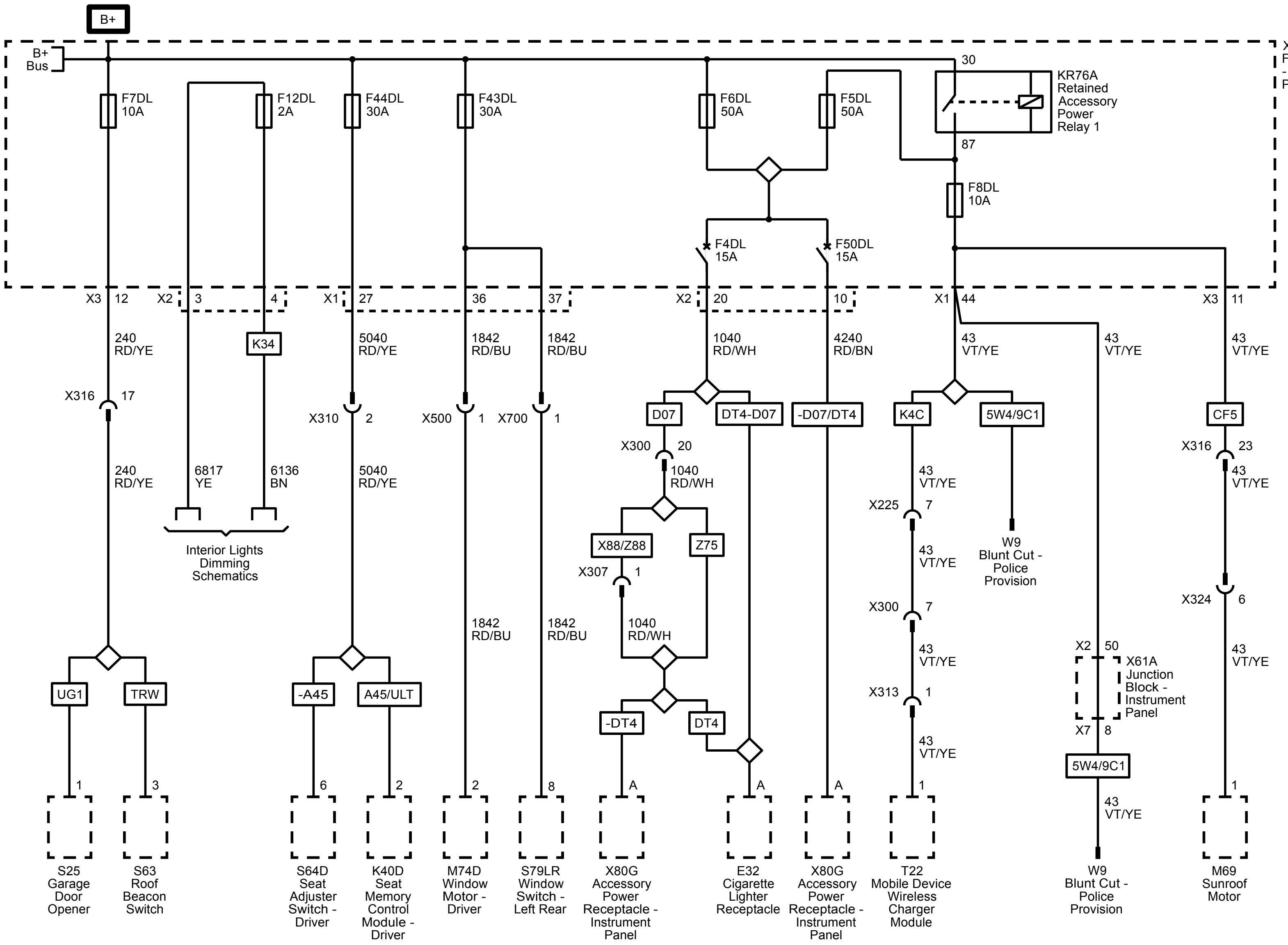

B+
B+
B+ Bus
B+ Bus
X51L Fuse Block - Instrument Panel Left
F10DL 20A
F11DL 10A
F19DL 10A
F26DL 15A
F39DL 10A
F34DL 10A
KR87 Transmission Park Position Relay
KR1F Adjustable Pedal Relay - Forward
KR1R Adjustable Pedal Relay - Rearward
X2 8
7
18
27
14
35
X1 20
28
2140 RD/GY
2940 RD/BN
2740 RD/WH
4640 RD/VT
4140 RD/GY
2840 RD/GY
J220
5W4/9C1
N38
BTM
5W4/9C1
X88/Z88
UV6
(X88/Z88)+(KA1/KB6)
X201 1
21
4640 RD/VT
4140 RD/GY
A
4640 RD/VT
A
4140 RD/GY
2840 RD/GY
2840 RD/GY
2840 RD/GY
2840 RD/GY
2840 RD/GY
X300 27
2840 RD/GY
X307 2
2840 RD/GY
2840 RD/GY
5130 GN/VT
5129 YE
X2 21
12
X61A Junction Block - Instrument Panel
X8 18
16
JF4-A45
JF4-A45
5130 GN/VT
5129 YE
X1 3
X2 3
1
1
1
5
X2 1
X1 9 (Z75)
X1 1 (-Z75)
X1 7
X1 6
1
1
1
4
K9 Body Control Module
(7X6/7X7) E35L Exterior Spot Lamp - Left
K99 Steering Column Position Control Module
K60 Steering Column Lock Module
(7X7) E35R Exterior Spot Lamp - Right
P17 Info Display Module
P16 Instrument Cluster
P29 Head-Up Display
S31D Seat Heating and Cooling Switch - Driver
S31P Seat Heating and Cooling Switch - Passenger
M5 Adjustable Pedal Motor
LOC
DESC

F24DL, F25DL, F33DL, F36DL, F37DL and F38DL

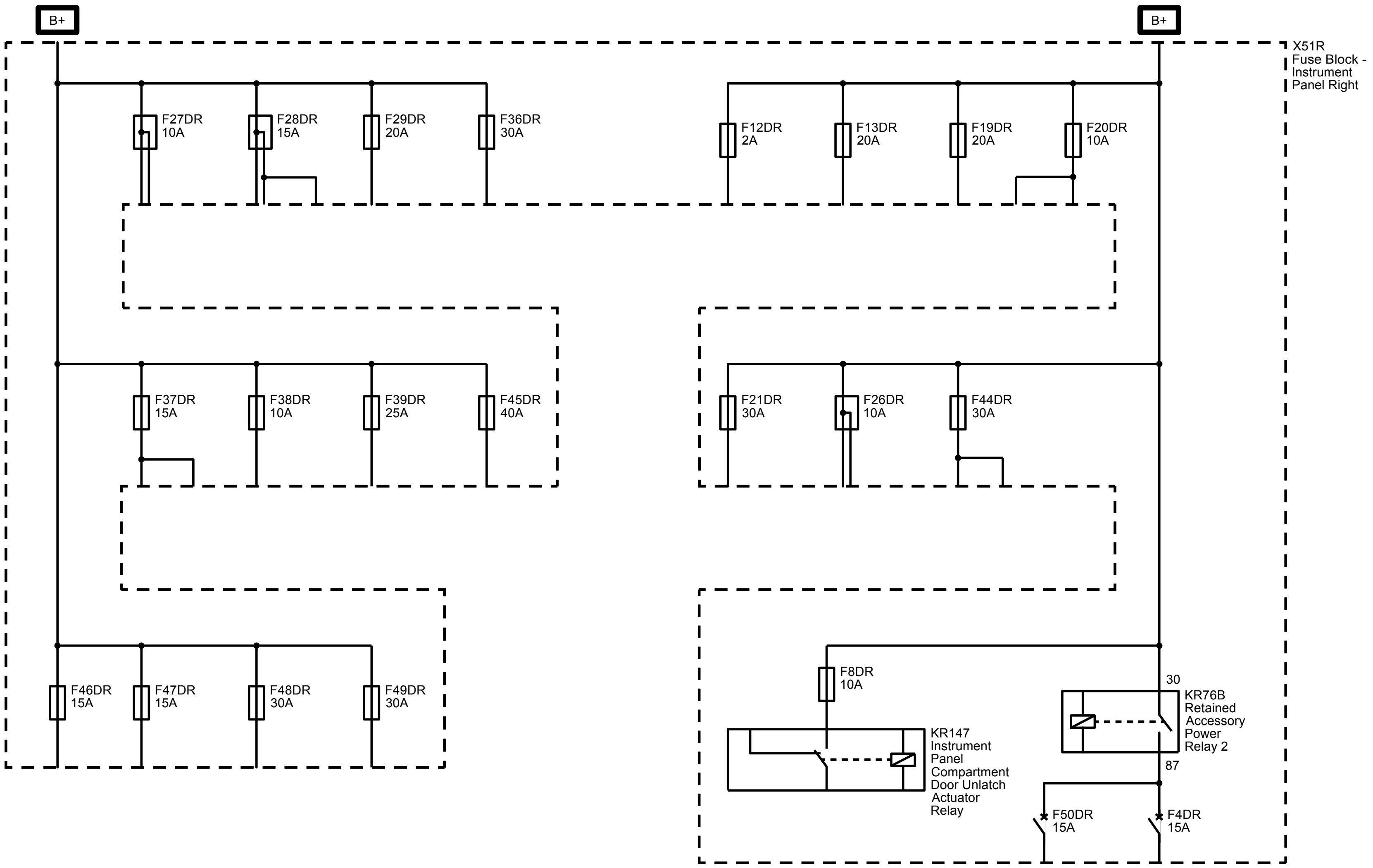


B+
B+ Bus
30
KR73 Ignition Main Relay
87A
87
X51L Fuse Block - Instrument Panel Left
F38DL 10A
F37DL 7.5A
F24DL 15A
F33DL 15A
F36DL 10A
F25DL 10A
X2 36
37
X1-29 (Not Used)
X2 15
34
X1 30
X2 38
X3 13
X1 32
X2 28
X3 14
BTM
UVD
DCK
NQH/NP0
-AZ3
UVC
UEU-UVC
807 BU/VT
1139 VT/WH
539 VT/GY
739 VT/BK
1939 VT/WH
1739 VT/GN
1739 VT/GN
1739 VT/GN
1739 VT/GN
1639 VT/BK
1639 VT/BK
1139 VT/BK
X300 21
X1 46
X4 25
X61A Junction Block - Instrument Panel
X7 11
X9 6
X201 23
41
X215 5
X900 32
X316 14
X6 1
X85 Steering Wheel Air Bag Coil
AZ3-DD8
AZ3/DD8
DD8-AZ3
J320
X300 8
5W4/9C1
539 VT/GY
739 VT/BK
1939 VT/WH
1739 VT/GN
1739 VT/GN
1739 VT/GN
1739 VT/GN
1739 VT/GN
1139 VT/BK
807 BU/VT
1139 VT/WH
1
1139 VT/WH
W9 Blunt Cut - Police Provision
6
1739 VT/GN
3
X2 9
4
X2 4
1
2
X1 8
1
4
K60 Steering Column Lock Module
K32 Steering Wheel Heating Control Module
K33 HVAC Control Module
K175 Center Console Compartment Cooler Control Module
K69 Transfer Case Control Module
A34 HVAC Controls - Auxiliary
A10 Inside Rearview Mirror
B87 Rearview Camera
P16 Instrument Cluster
P43 Collision Alert Indicators
P14 Passenger Air Bag Disabled Indicator

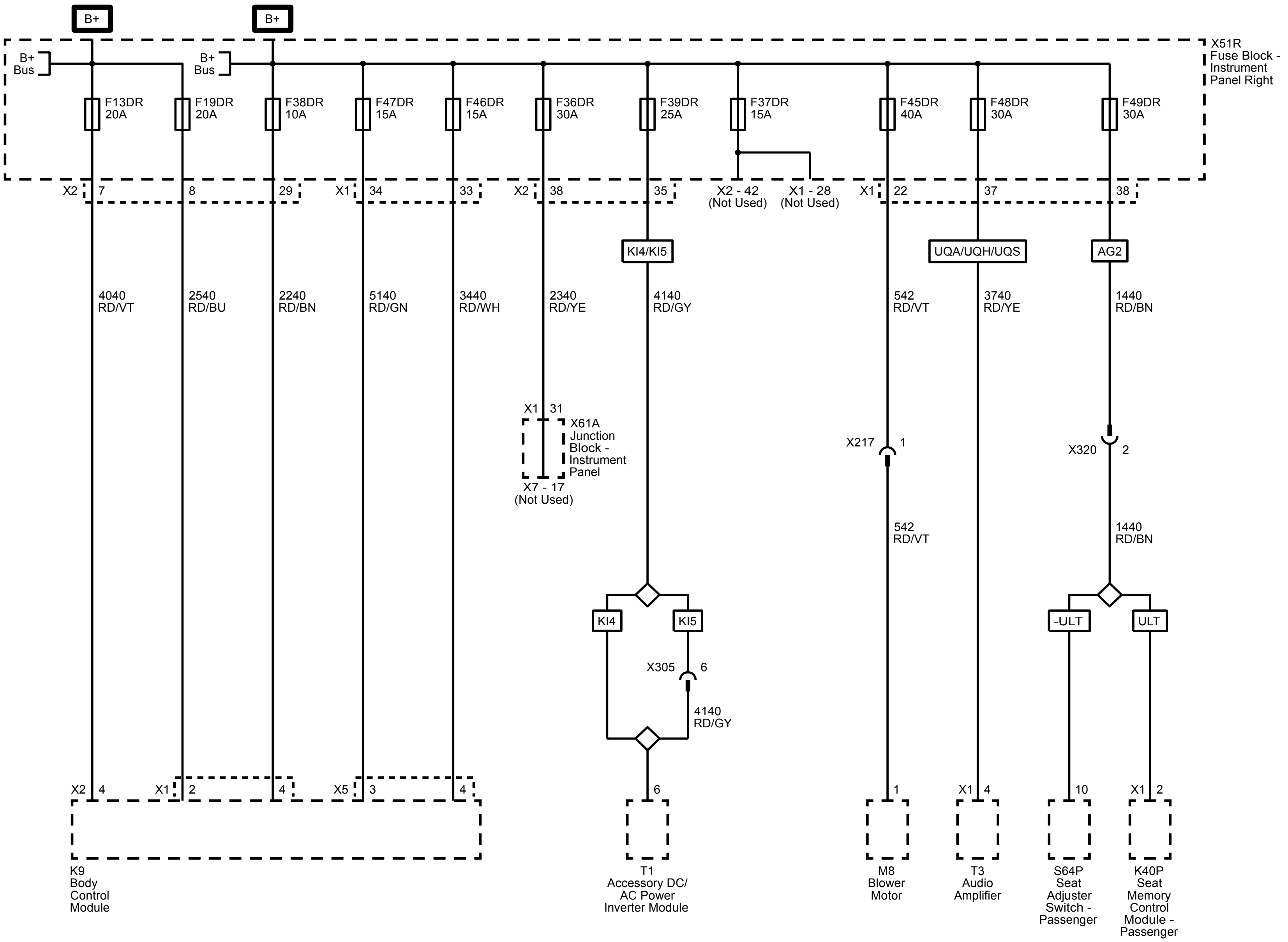
F4DL, F5DL, F6DL, F7DL, F8DL, F12DL, F16DL, F43DL, F44DL and F50DL

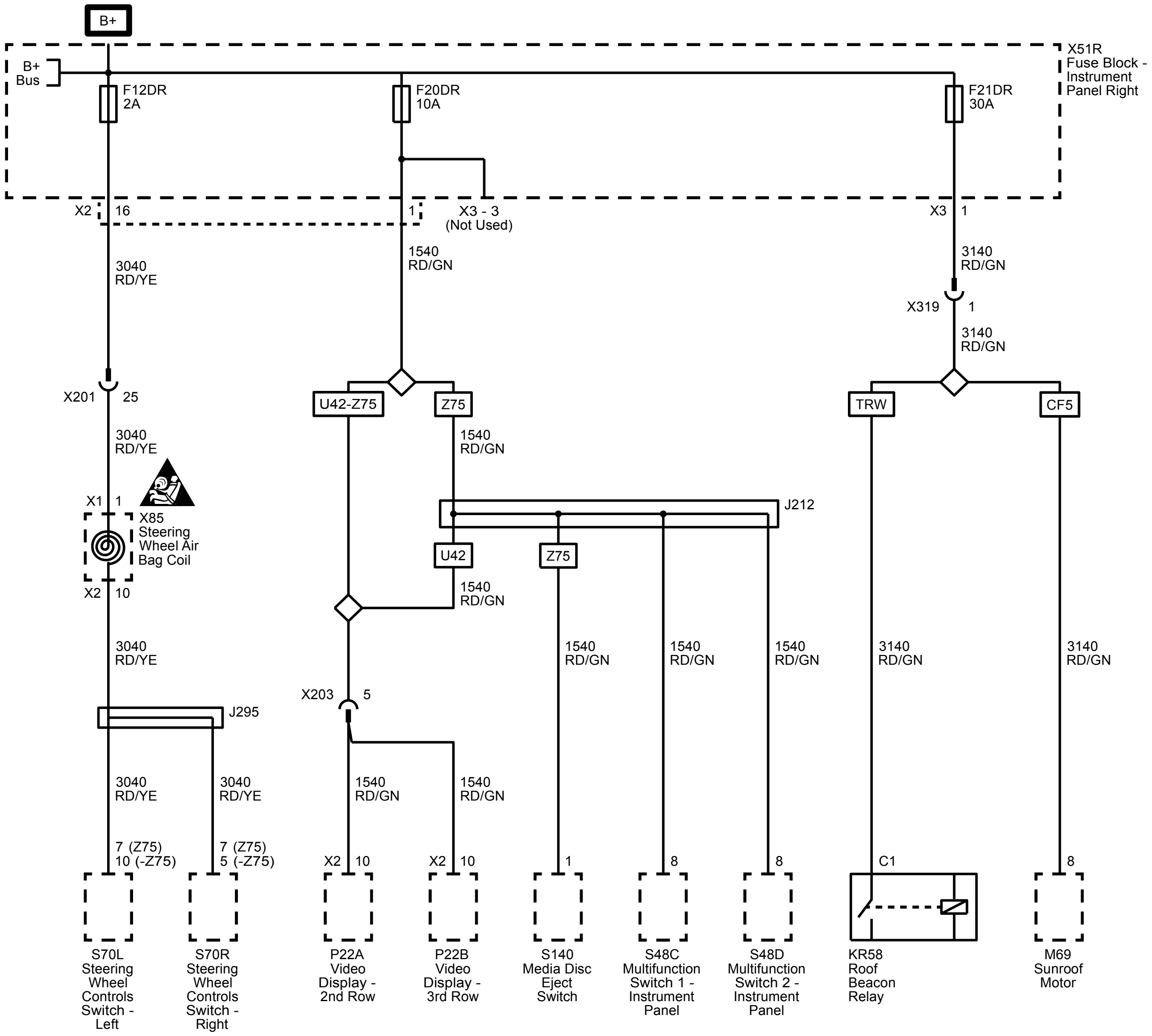

B+
B+ Bus
F7DL 10A
F12DL 2A
F44DL 30A
F43DL 30A
F6DL 50A
F5DL 50A
30
87
KR76A Retained Accessory Power Relay 1
X51L Fuse Block - Instrument Panel Left
F8DL 10A
F4DL 15A
F50DL 15A
X3 12
X2 3
4
X1 27
36
37
X2 20
10
X1 44
X3 11
240 RD/YE
K34
5040 RD/YE
1842 RD/BU
1842 RD/BU
1040 RD/WH
4240 RD/BN
43 VT/YE
43 VT/YE
43 VT/YE
X316 17
X310 2
X500 1
X700 1
D07
DT4-D07
-D07/DT4
K4C
5W4/9C1
CF5
X300 20
X316 23
240 RD/YE
6817 YE
6136 BN
5040 RD/YE
1040 RD/WH
43 VT/YE
43 VT/YE
X225 7
Interior Lights Dimming Schematics
X88/Z88
Z75
X307 1
W9 Blunt Cut - Police Provision
X300 7
X324 6
1842 RD/BU
1842 RD/BU
1040 RD/WH
43 VT/YE
43 VT/YE
X2 50
X61A Junction Block - Instrument Panel
X313 1
UG1
TRW
-A45
A45/ULT
-DT4
DT4
X7 8
43 VT/YE
5W4/9C1
43 VT/YE
1
3
6
2
2
8
A
A
A
1
1
S25 Garage Door Opener
S63 Roof Beacon Switch
S64D Seat Adjuster Switch - Driver
K40D Seat Memory Control Module - Driver
M74D Window Motor - Driver
S79LR Window Switch - Left Rear
X80G Accessory Power Receptacle - Instrument Panel
E32 Cigarette Lighter Receptacle
X80G Accessory Power Receptacle - Instrument Panel
T22 Mobile Device Wireless Charger Module
W9 Blunt Cut - Police Provision
M69 Sunroof Motor

X51R Fuse Block - Instrument Panel Right Bussing

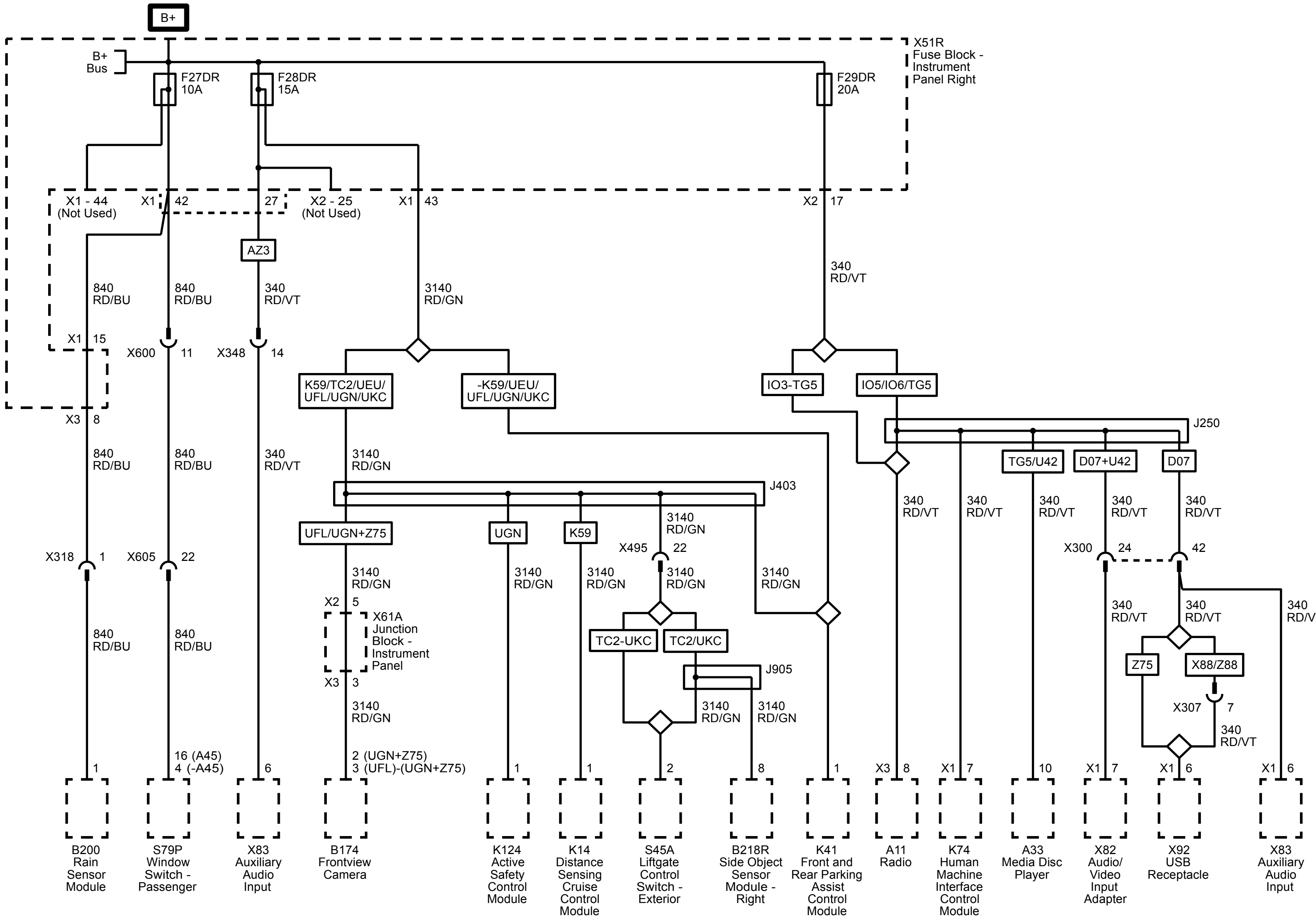

B+
B+
X51R
Fuse Block -
Instrument
Panel Right
F27DR 10A
F28DR 15A
F29DR 20A
F36DR 30A
F12DR 2A
F13DR 20A
F19DR 20A
F20DR 10A
F37DR 15A
F38DR 10A
F39DR 25A
F45DR 40A
F21DR 30A
F26DR 10A
F44DR 30A
F46DR 15A
F47DR 15A
F48DR 30A
F49DR 30A
F8DR 10A
KR147
Instrument
Panel
Compartment
Door Unlatch
Actuator
Relay
30
KR76B
Retained
Accessory
Power
Relay 2
87
F50DR 15A
F4DR 15A

F13DR, F19DR, F36DR, F37DR, F38DR, F39DR, F45DR, F46DR, F47DR, F48DR and F49DR

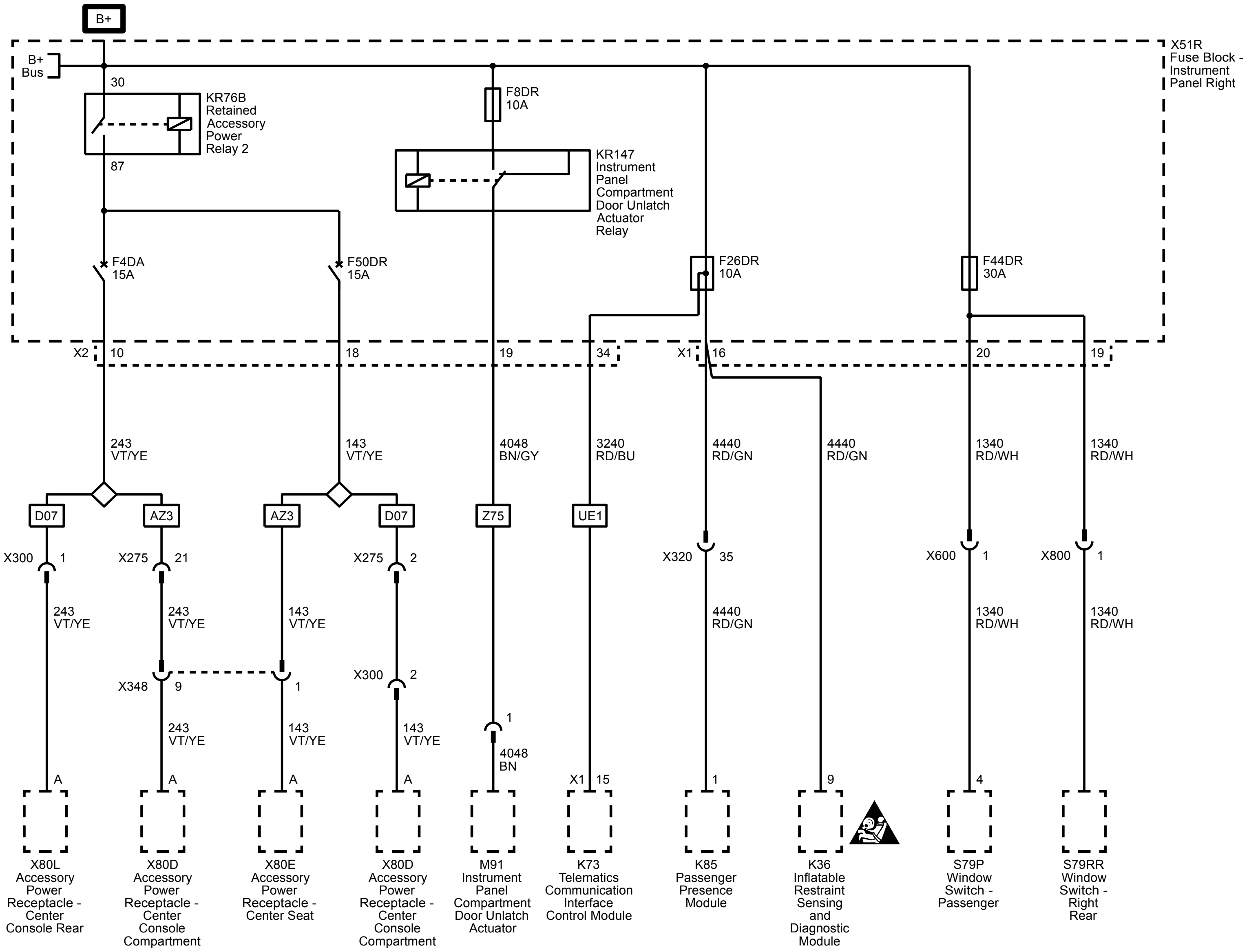

B+
B+
B+ Bus
B+ Bus
X51R Fuse Block - Instrument Panel Right
F13DR 20A
F19DR 20A
F38DR 10A
F47DR 15A
F46DR 15A
F36DR 30A
F39DR 25A
F37DR 15A
F45DR 40A
F48DR 30A
F49DR 30A
X2 7
8
29
X1 34
33
X2 38
35
X2 - 42 (Not Used)
X1 - 28 (Not Used)
X1 22
37
38
KI4/KI5
UQA/UQH/UQS
AG2
4040 RD/VT
2540 RD/BU
2240 RD/BN
5140 RD/GN
3440 RD/WH
2340 RD/YE
4140 RD/GY
542 RD/VT
3740 RD/YE
1440 RD/BN
X1 31
X61A Junction Block - Instrument Panel
X7 - 17 (Not Used)
X217 1
542 RD/VT
X320 2
1440 RD/BN
KI4
KI5
X305 6
4140 RD/GY
-ULT
ULT
X2 4
X1 2
4
X5 3
4
6
1
X1 4
10
X1 2
K9 Body Control Module
T1 Accessory DC/ AC Power Inverter Module
M8 Blower Motor
T3 Audio Amplifier
S64P Seat Adjuster Switch - Passenger
K40P Seat Memory Control Module - Passenger


B+
B+ Bus
X51R Fuse Block - Instrument Panel Right
F12DR 2A
F20DR 10A
F21DR 30A
X2 16
1
X3 - 3 (Not Used)
X3 1
3040 RD/YE
1540 RD/GN
3140 RD/GN
X319 1
3140 RD/GN
X201 25
3040 RD/YE
U42-Z75
Z75
1540 RD/GN
TRW
CF5
X1 1
X85 Steering Wheel Air Bag Coil
X2 10
J212
U42
Z75
1540 RD/GN
1540 RD/GN
1540 RD/GN
1540 RD/GN
3140 RD/GN
3140 RD/GN
3040 RD/YE
J295
X203 5
3040 RD/YE
3040 RD/YE
1540 RD/GN
1540 RD/GN
7 (Z75) 10 (-Z75)
7 (Z75) 5 (-Z75)
X2 10
X2 10
1
8
8
C1
8
S70L Steering Wheel Controls Switch - Left
S70R Steering Wheel Controls Switch - Right
P22A Video Display - 2nd Row
P22B Video Display - 3rd Row
S140 Media Disc Eject Switch
S48C Multifunction Switch 1 - Instrument Panel
S48D Multifunction Switch 2 - Instrument Panel
KR58 Roof Beacon Relay
M69 Sunroof Motor

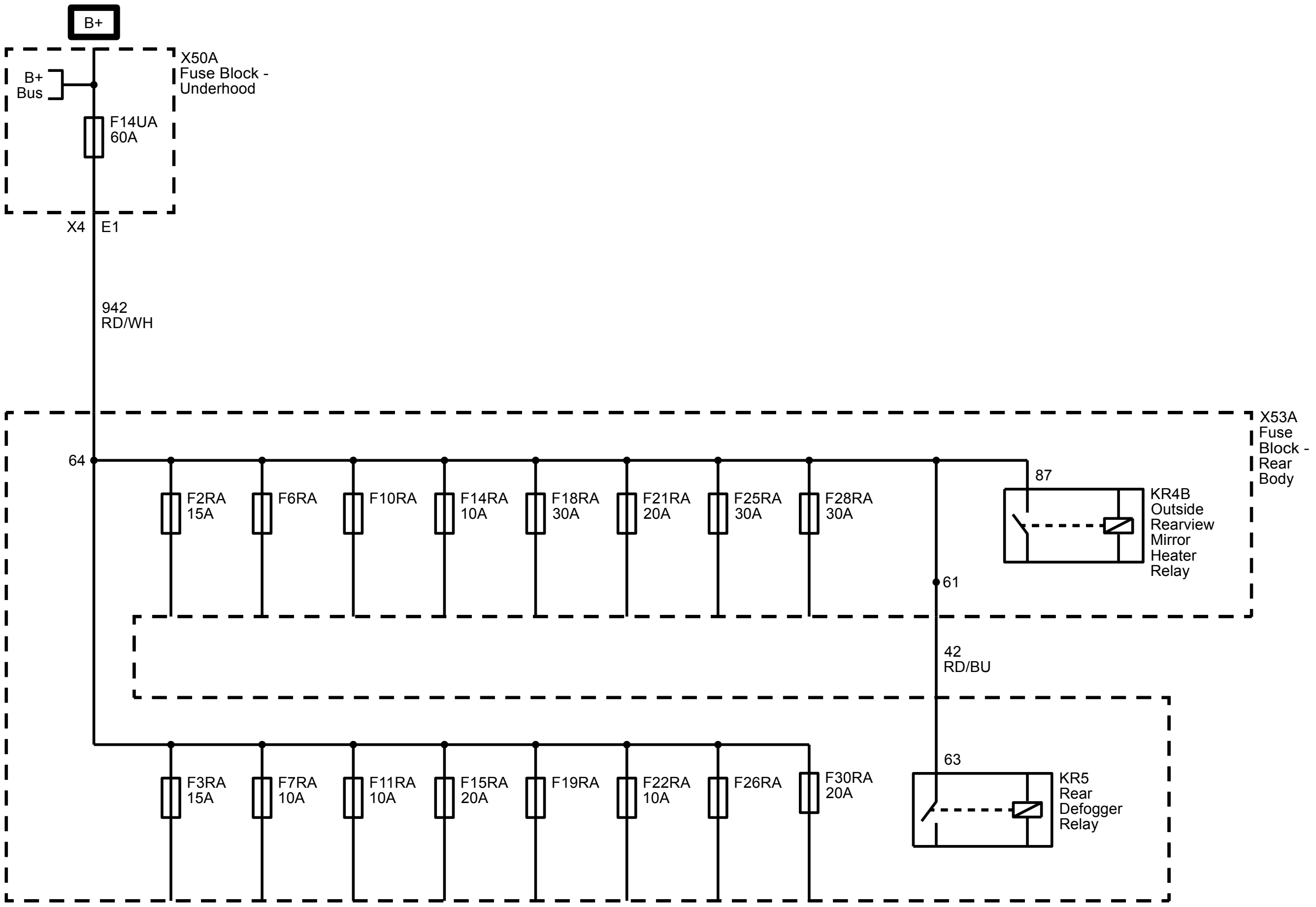
F27DR, F28DR and F29DR


B+
B+ Bus
X51R Fuse Block - Instrument Panel Right
F27DR 10A
F28DR 15A
F29DR 20A
X1 - 44 (Not Used)
X1 42
27
X2 - 25 (Not Used)
X1 43
X2 17
AZ3
840 RD/BU
840 RD/BU
340 RD/VT
3140 RD/GN
340 RD/VT
X1 15
X600 11
X348 14
K59/TC2/UEU/UFL/UGN/UKC
-K59/UEU/UFL/UGN/UKC
IO3-TG5
IO5/IO6/TG5
X3 8
J250
840 RD/BU
840 RD/BU
340 RD/VT
3140 RD/GN
J403
TG5/U42
D07+U42
D07
340 RD/VT
340 RD/VT
340 RD/VT
340 RD/VT
340 RD/VT
3140 RD/GN
UFL/UGN+Z75
UGN
K59
X495 22
X318 1
X605 22
X300 24
42
3140 RD/GN
3140 RD/GN
3140 RD/GN
3140 RD/GN
3140 RD/GN
840 RD/BU
840 RD/BU
X2 5
X61A Junction Block - Instrument Panel
X3 3
TC2-UKC
TC2/UKC
J905
340 RD/VT
340 RD/VT
340 RD/VT
Z75
X88/Z88
X307 7
340 RD/VT
3140 RD/GN
3140 RD/GN
3140 RD/GN
1
16 (A45)
4 (-A45)
6
2 (UGN+Z75)
3 (UFL)-(UGN+Z75)
1
1
2
8
1
X3 8
X1 7
10
X1 7
X1 6
X1 6
B200 Rain Sensor Module
S79P Window Switch - Passenger
X83 Auxiliary Audio Input
B174 Frontview Camera
K124 Active Safety Control Module
K14 Distance Sensing Cruise Control Module
S45A Liftgate Control Switch - Exterior
B218R Side Object Sensor Module - Right
K41 Front and Rear Parking Assist Control Module
A11 Radio
K74 Human Machine Interface Control Module
A33 Media Disc Player
X82 Audio/Video Input Adapter
X92 USB Receptacle
X83 Auxiliary Audio Input

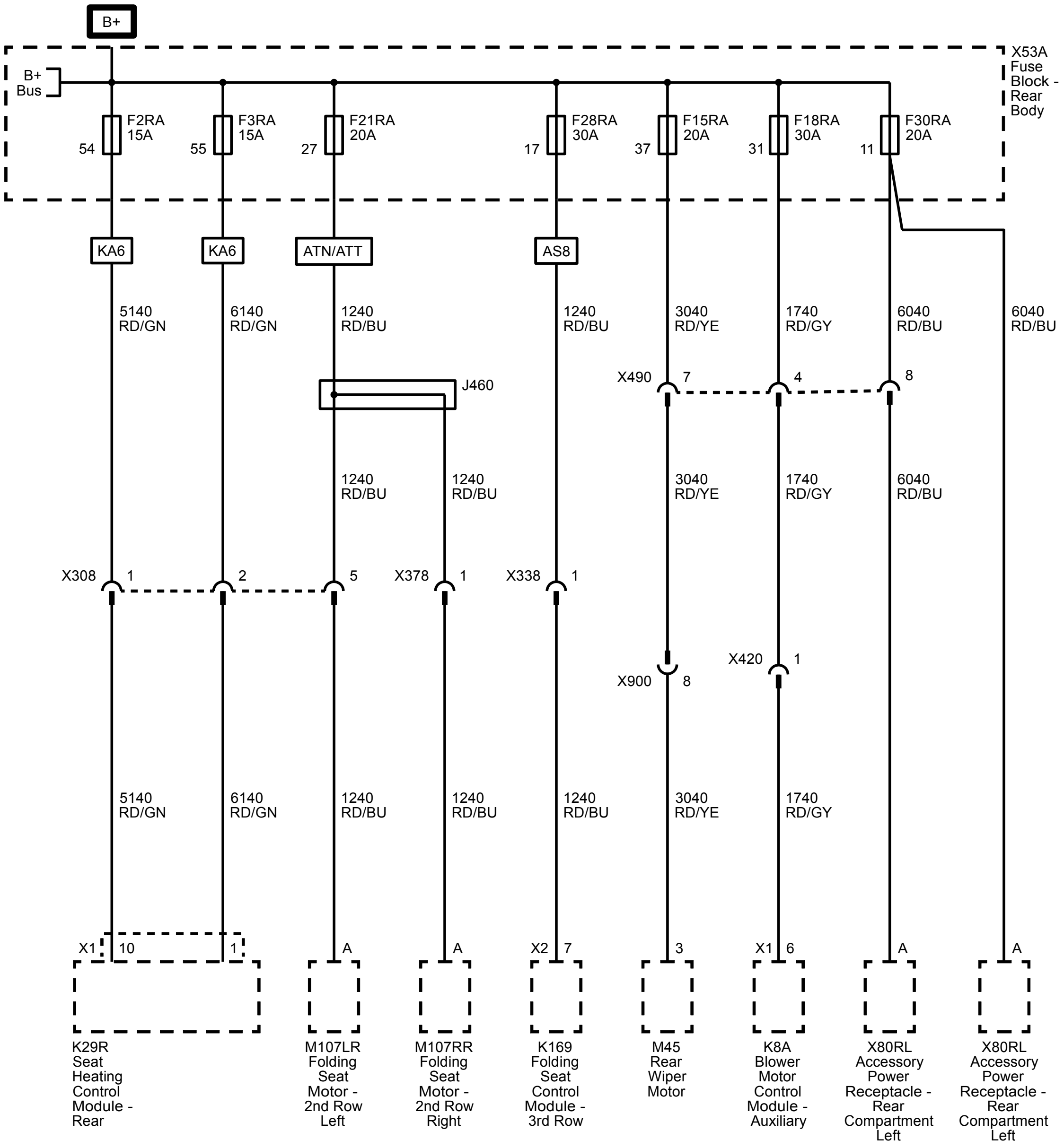
F4DR, F8DR, F26DR, F44DR and F50DR


B+
B+ Bus
30
KR76B Retained Accessory Power Relay 2
87
F8DR 10A
KR147 Instrument Panel Compartment Door Unlatch Actuator Relay
X51R Fuse Block - Instrument Panel Right
F4DA 15A
F50DR 15A
F26DR 10A
F44DR 30A
X2
10
18
19
34
X1
16
20
19
243 VT/YE
143 VT/YE
4048 BN/GY
3240 RD/BU
4440 RD/GN
4440 RD/GN
1340 RD/WH
1340 RD/WH
D07
AZ3
AZ3
D07
Z75
UE1
X300
1
X275
21
X275
2
X320
35
X600
1
X800
1
243 VT/YE
243 VT/YE
143 VT/YE
4440 RD/GN
1340 RD/WH
1340 RD/WH
X348
9
1
X300
2
1
243 VT/YE
143 VT/YE
143 VT/YE
4048 BN
A
A
A
A
X1
15
1
9
4
X80L Accessory Power Receptacle - Center Console Rear
X80D Accessory Power Receptacle - Center Console Compartment
X80E Accessory Power Receptacle - Center Seat
X80D Accessory Power Receptacle - Center Console Compartment
M91 Instrument Panel Compartment Door Unlatch Actuator
K73 Telematics Communication Interface Control Module
K85 Passenger Presence Module
K36 Inflatable Restraint Sensing and Diagnostic Module
S79P Window Switch - Passenger
S79RR Window Switch - Right Rear

X53A Fuse Block - Rear Body Bussing

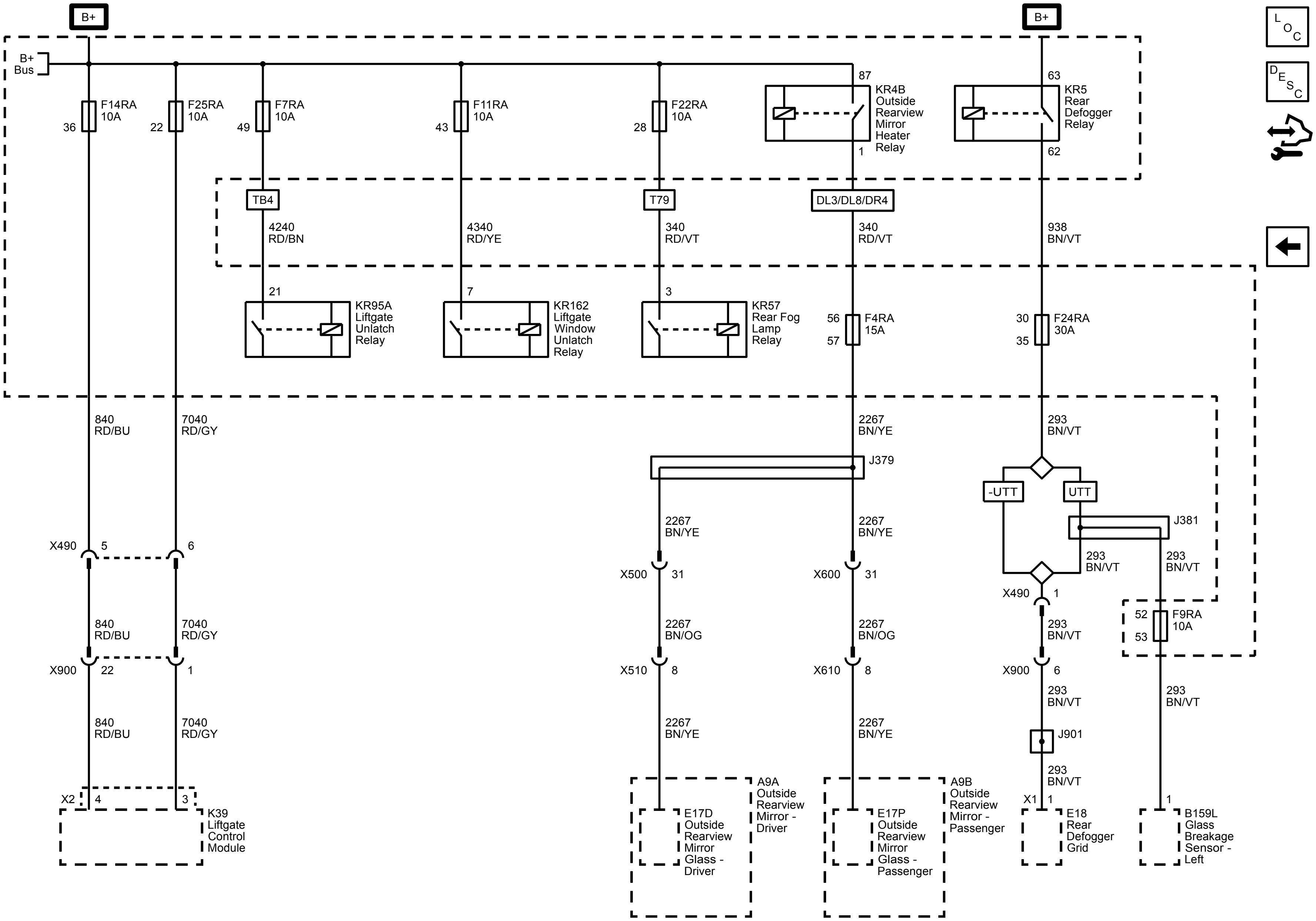

B+
B+
Bus
X50A
Fuse Block -
Underhood
F14UA
60A
X4
E1
942
RD/WH
X53A
Fuse
Block -
Rear
Body
64
F2RA
15A
F6RA
F10RA
F14RA
10A
F18RA
30A
F21RA
20A
F25RA
30A
F28RA
30A
87
KR4B
Outside
Rearview
Mirror
Heater
Relay
61
42
RD/BU
63
F3RA
15A
F7RA
10A
F11RA
10A
F15RA
20A
F19RA
F22RA
10A
F26RA
F30RA
20A
KR5
Rear
Defogger
Relay

F2RA, F3RA, F15RA, F18RA, F21RA, F28RA and F30RA

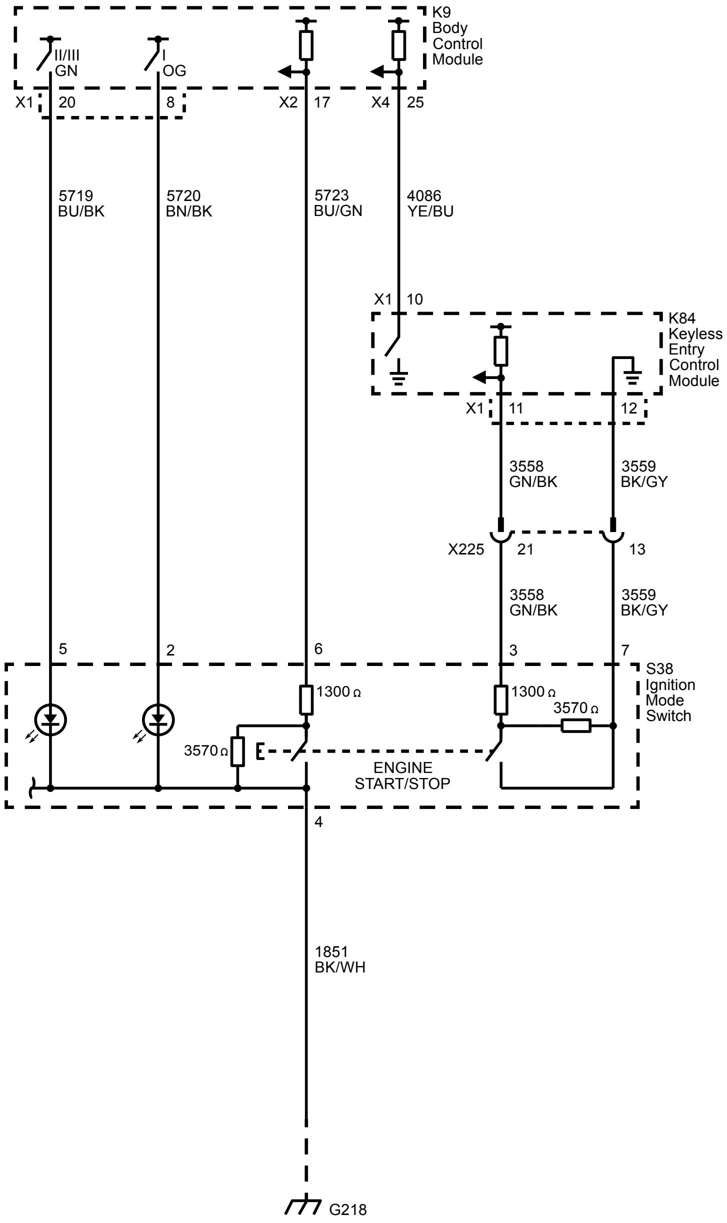


B+
B+ Bus
X53A Fuse Block - Rear Body
F2RA 15A
54
F3RA 15A
55
F21RA 20A
27
F28RA 30A
17
F15RA 20A
37
F18RA 30A
31
F30RA 20A
11
KA6
KA6
ATN/ATT
AS8
5140 RD/GN
6140 RD/GN
1240 RD/BU
1240 RD/BU
3040 RD/YE
1740 RD/GY
6040 RD/BU
6040 RD/BU
J460
X490
7
4
8
1240 RD/BU
1240 RD/BU
3040 RD/YE
1740 RD/GY
6040 RD/BU
X308
1
2
5
X378
1
X338
1
X420
1
X900
8
5140 RD/GN
6140 RD/GN
1240 RD/BU
1240 RD/BU
1240 RD/BU
3040 RD/YE
1740 RD/GY
X1
10
1
A
A
X2
7
3
X1
6
A
A
K29R Seat Heating Control Module - Rear
M107LR Folding Seat Motor - 2nd Row Left
M107RR Folding Seat Motor - 2nd Row Right
K169 Folding Seat Control Module - 3rd Row
M45 Rear Wiper Motor
K8A Blower Motor Control Module - Auxiliary
X80RL Accessory Power Receptacle - Rear Compartment Left
X80RL Accessory Power Receptacle - Rear Compartment Left

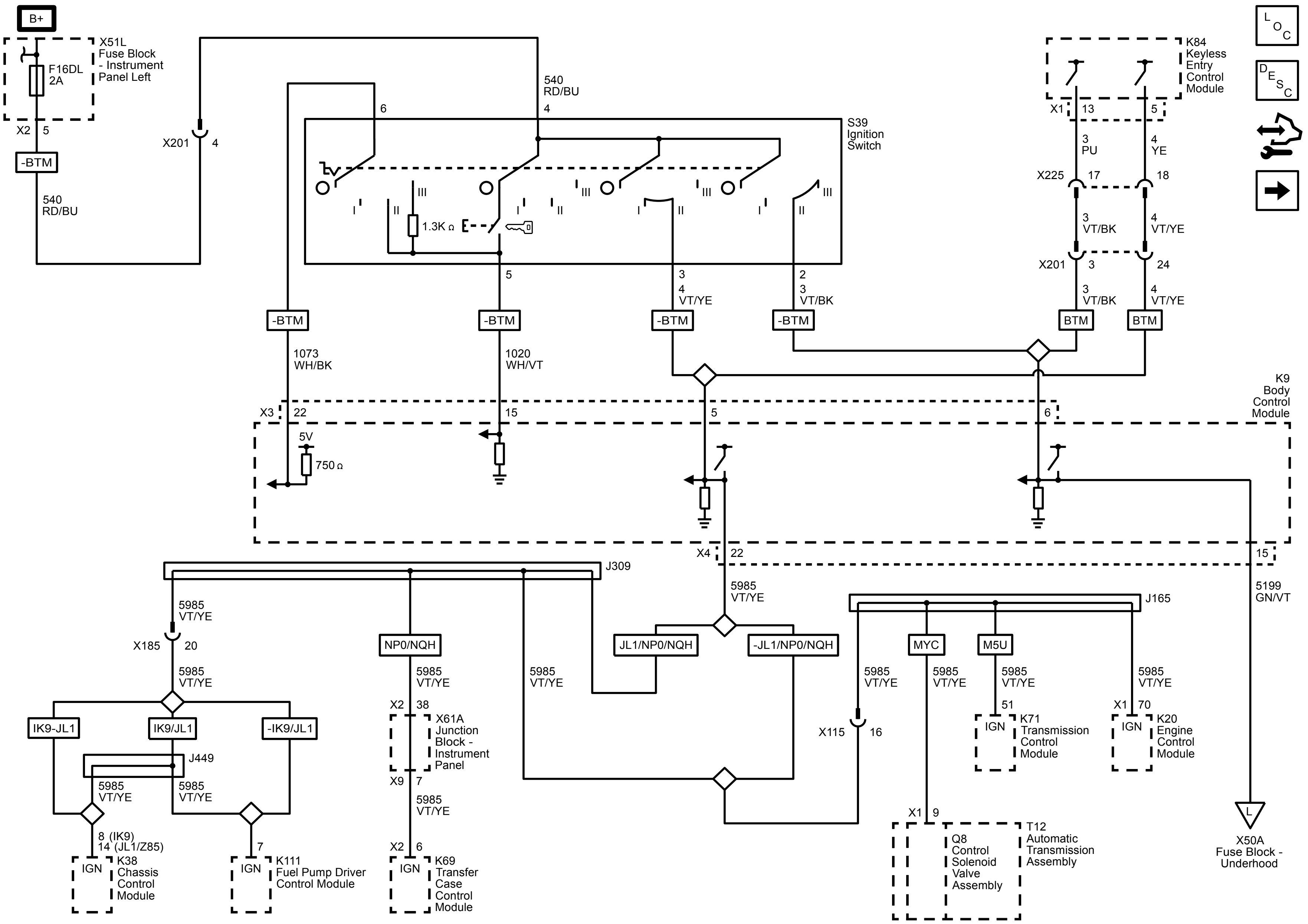
LOC
DESC


B+
B+
B+ Bus
F14RA 10A
36
F25RA 10A
22
F7RA 10A
49
F11RA 10A
43
F22RA 10A
28
87
KR4B Outside Rearview Mirror Heater Relay
1
63
KR5 Rear Defogger Relay
62
TB4
T79
DL3/DL8/DR4
4240 RD/BN
4340 RD/YE
340 RD/VT
340 RD/VT
938 BN/VT
21
KR95A Liftgate Unlatch Relay
7
KR162 Liftgate Window Unlatch Relay
3
KR57 Rear Fog Lamp Relay
56
F4RA 15A
57
30
F24RA 30A
35
840 RD/BU
7040 RD/GY
2267 BN/YE
293 BN/VT
J379
-UTT
UTT
J381
2267 BN/YE
2267 BN/YE
X490
5
6
X500
31
X600
31
293 BN/VT
293 BN/VT
X490
1
52
F9RA 10A
53
840 RD/BU
7040 RD/GY
2267 BN/OG
2267 BN/OG
293 BN/VT
X900
22
1
X510
8
X610
8
X900
6
840 RD/BU
7040 RD/GY
2267 BN/YE
2267 BN/YE
293 BN/VT
293 BN/VT
J901
293 BN/VT
X2
4
3
K39 Liftgate Control Module
A9A Outside Rearview Mirror - Driver
E17D Outside Rearview Mirror Glass - Driver
A9B Outside Rearview Mirror - Passenger
E17P Outside Rearview Mirror Glass - Passenger
X1
1
E18 Rear Defogger Grid
1
B159L Glass Breakage Sensor - Left
L O C
D E S C

Ignition Mode Switch (BTM)

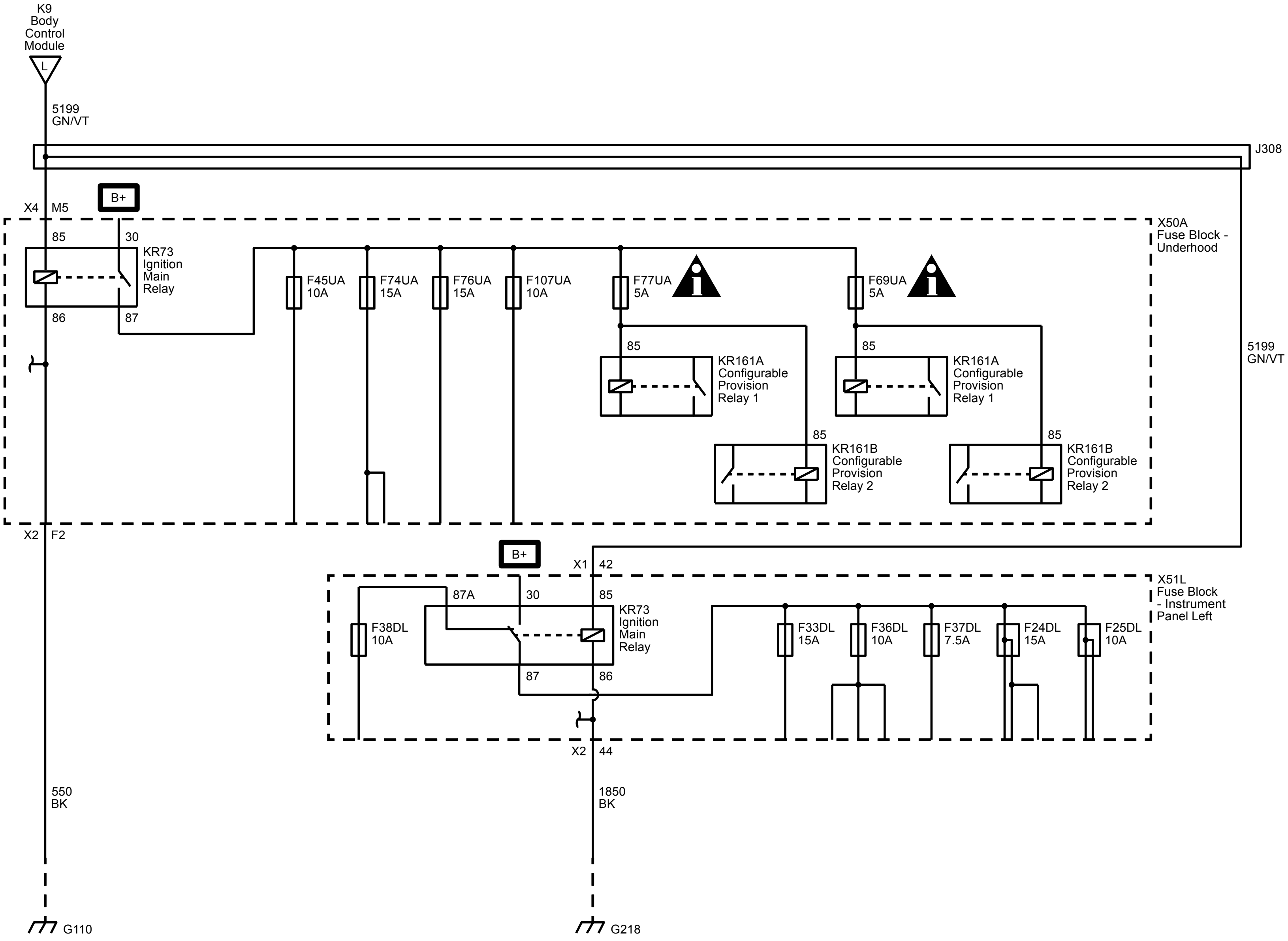

K9
Body
Control
Module
II/III
GN
I
OG
X1
20
8
X2
17
X4
25
5719
BU/BK
5720
BN/BK
5723
BU/GN
4086
YE/BU
X1
10
K84
Keyless
Entry
Control
Module
X1
11
12
3558
GN/BK
3559
BK/GY
X225
21
13
3558
GN/BK
3559
BK/GY
5
2
6
3
7
S38
Ignition
Mode
Switch
1300 Ω
1300 Ω
3570 Ω
3570 Ω
ENGINE
START/STOP
4
1851
BK/WH
G218

Ignition Switch (without BTM) and Ignition Power

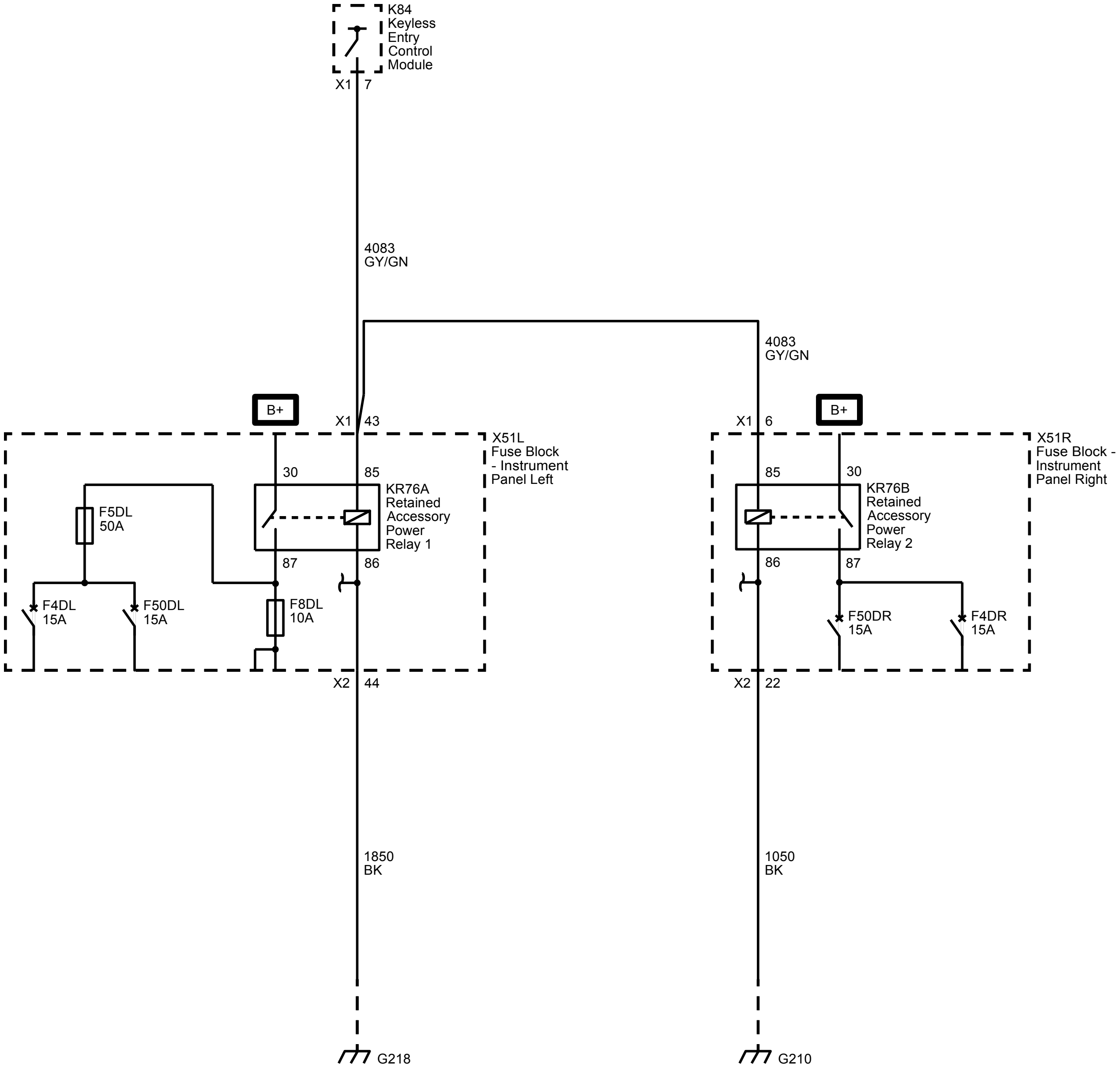


B+
X51L Fuse Block - Instrument Panel Left
F16DL 2A
X2 5
-BTM
540 RD/BU
X201 4
540 RD/BU
6
4
S39 Ignition Switch
1.3K Ω
I
II
III
5
3
2
4 VT/YE
3 VT/BK
-BTM
1073 WH/BK
1020 WH/VT
K84 Keyless Entry Control Module
X1 13
5
3 PU
4 YE
X225 17
18
3 VT/BK
4 VT/YE
X201 3
24
3 VT/BK
4 VT/YE
BTM
K9 Body Control Module
X3 22
15
5
6
5V
750 Ω
X4 22
15
5985 VT/YE
5199 GN/VT
J309
J165
5985 VT/YE
X185 20
NP0/NQH
JL1/NP0/NQH
-JL1/NP0/NQH
MYC
M5U
IK9-JL1
IK9/JL1
-IK9/JL1
J449
X2 38
X61A Junction Block - Instrument Panel
X9 7
X2 6
IGN
K69 Transfer Case Control Module
X115 16
51
IGN
K71 Transmission Control Module
X1 70
K20 Engine Control Module
8 (IK9)
14 (JL1/Z85)
K38 Chassis Control Module
7
K111 Fuel Pump Driver Control Module
X1 9
Q8 Control Solenoid Valve Assembly
T12 Automatic Transmission Assembly
L
X50A Fuse Block - Underhood
L O C
D E S C

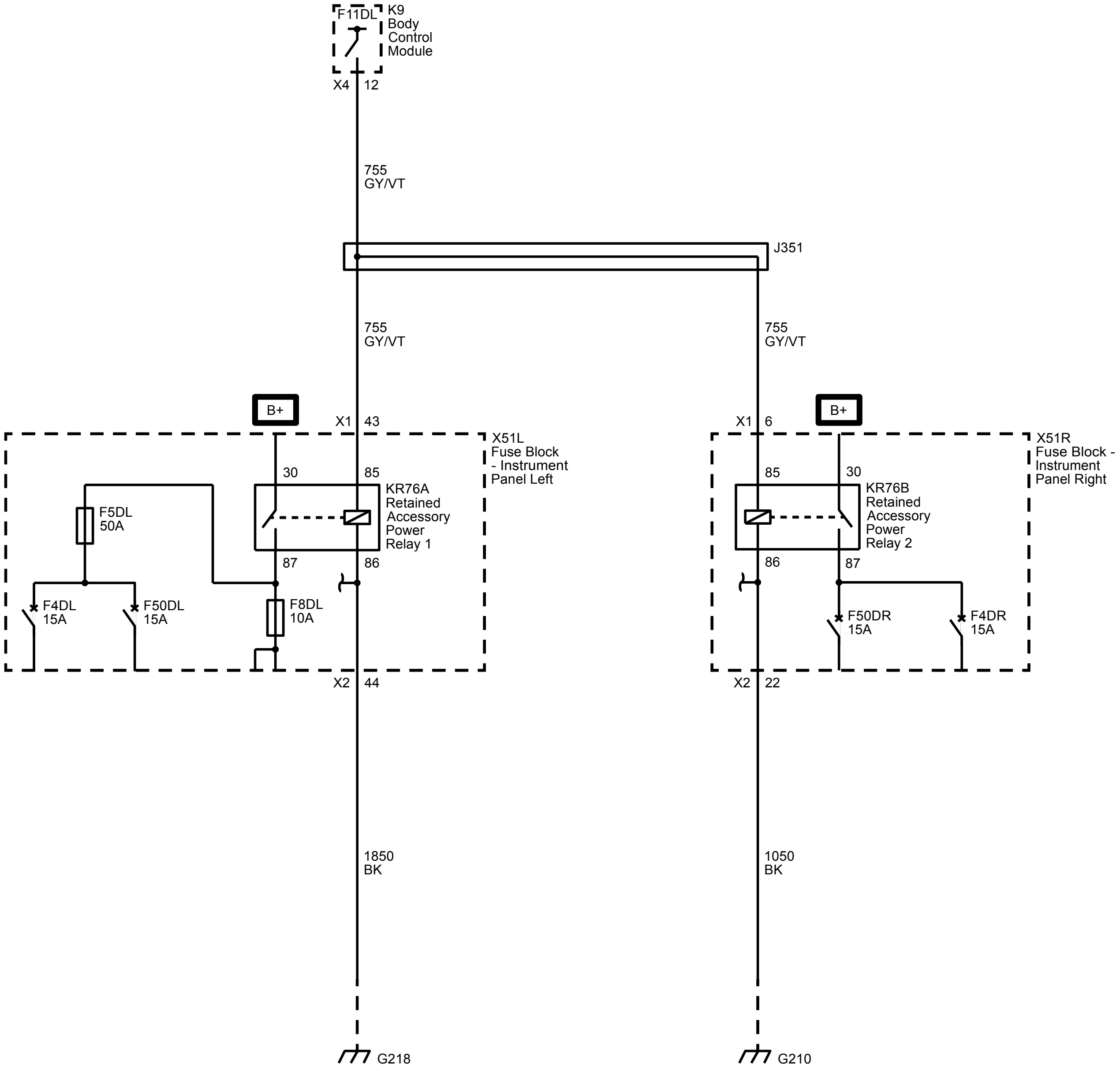
Ignition Main Relay


K9
Body
Control
Module
L
5199
GN/VT
J308
X4
M5
B+
85
30
KR73
Ignition
Main
Relay
86
87
X50A
Fuse Block -
Underhood
F45UA
10A
F74UA
15A
F76UA
15A
F107UA
10A
F77UA
5A
F69UA
5A
85
KR161A
Configurable
Provision
Relay 1
85
KR161A
Configurable
Provision
Relay 1
85
KR161B
Configurable
Provision
Relay 2
85
KR161B
Configurable
Provision
Relay 2
5199
GN/VT
X2
F2
B+
X1
42
87A
30
85
KR73
Ignition
Main
Relay
87
86
X51L
Fuse Block
- Instrument
Panel Left
F38DL
10A
F33DL
15A
F36DL
10A
F37DL
7.5A
F24DL
15A
F25DL
10A
X2
44
550
BK
1850
BK
G110
G218

LOC
DESC

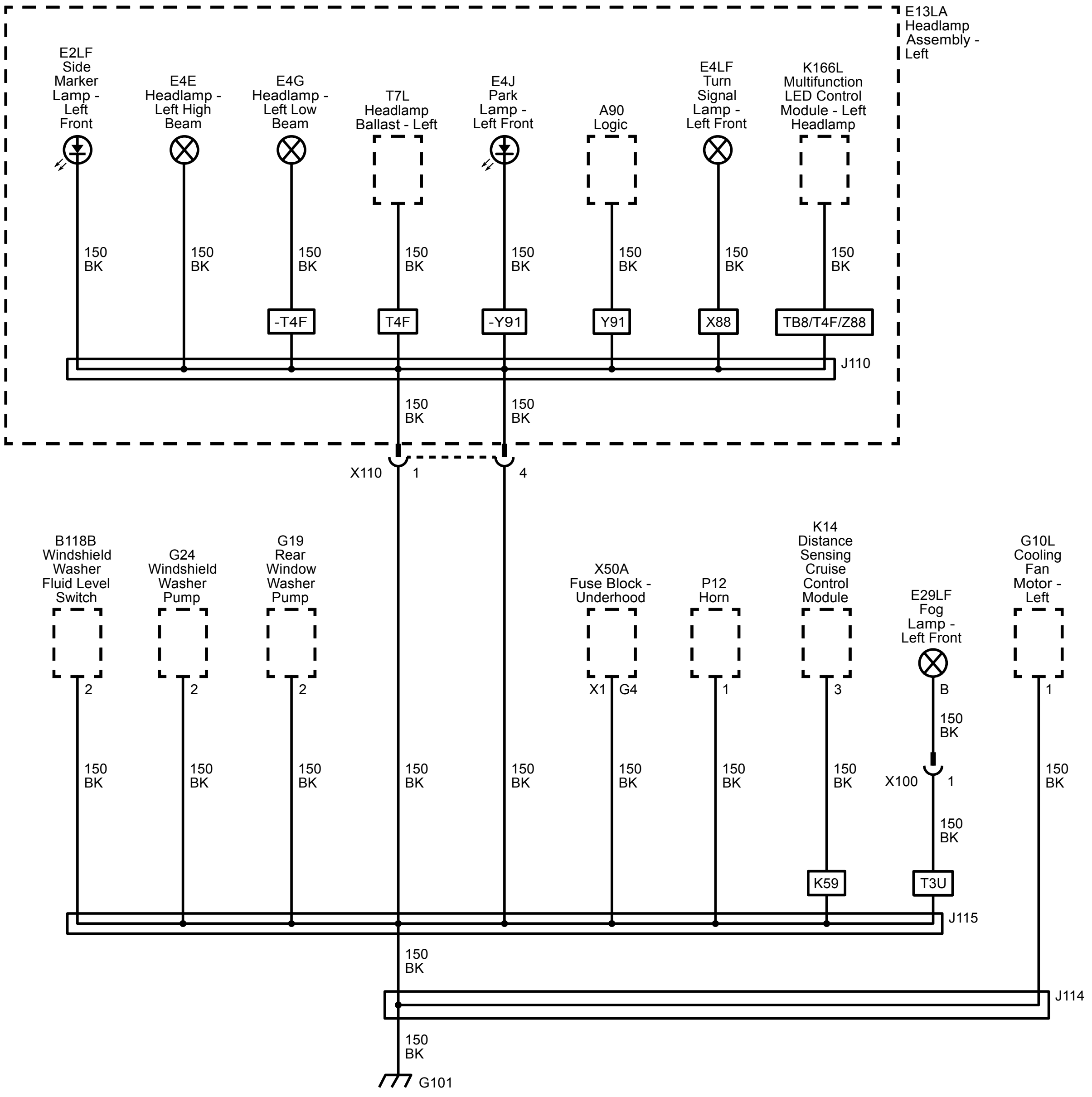

K84
Keyless
Entry
Control
Module
X1 7
4083
GY/GN
4083
GY/GN
B+
X1 43
X51L
Fuse Block
- Instrument
Panel Left
30
85
KR76A
Retained
Accessory
Power
Relay 1
F5DL
50A
87
86
F4DL
15A
F50DL
15A
F8DL
10A
X2 44
1850
BK
G218
B+
X1 6
X51R
Fuse Block -
Instrument
Panel Right
85
30
KR76B
Retained
Accessory
Power
Relay 2
86
87
F50DR
15A
F4DR
15A
X2 22
1050
BK
G210

Accessory Power (without BTM)

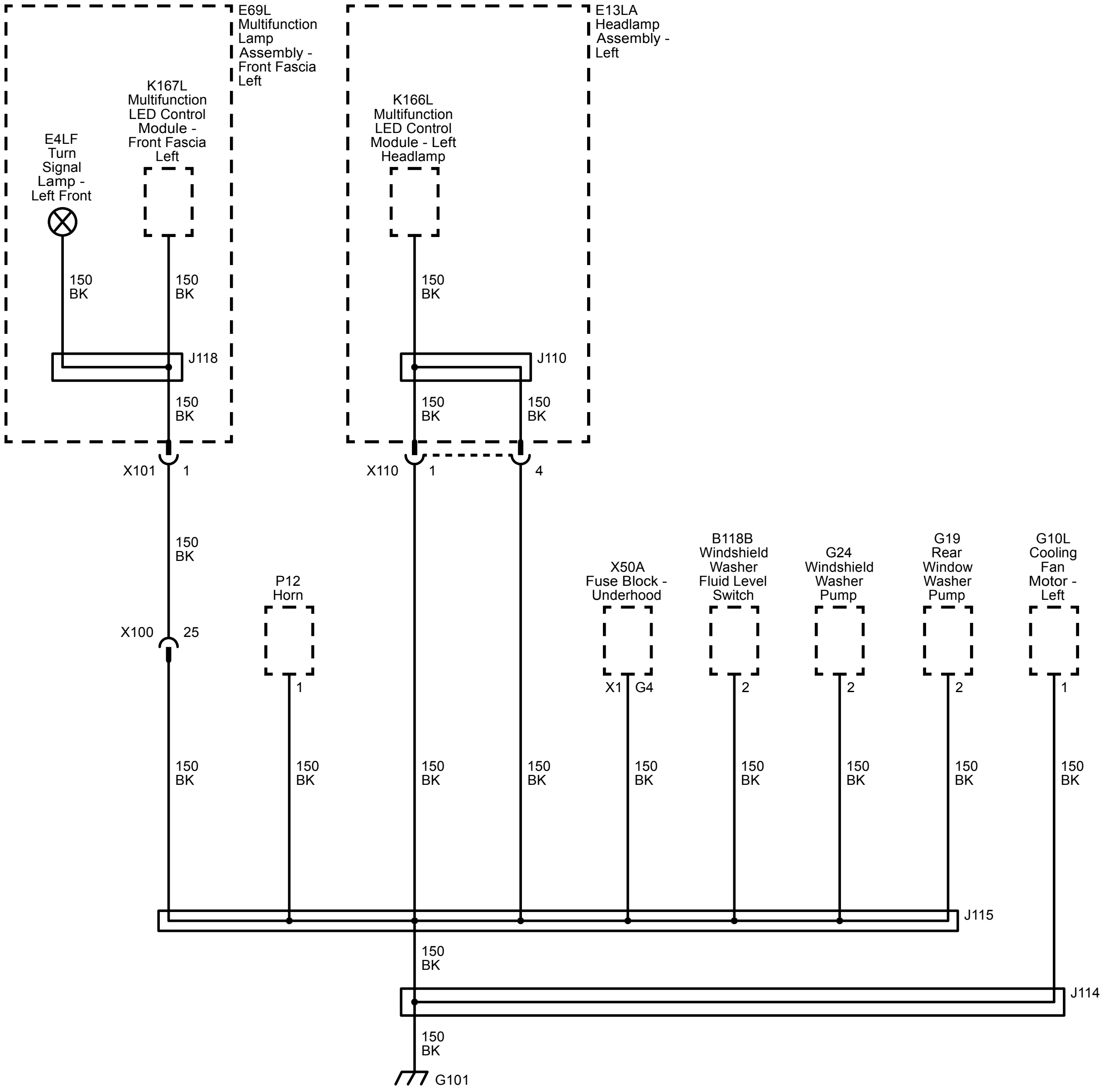


F11DL
K9
Body
Control
Module
X4
12
755
GY/VT
J351
755
GY/VT
755
GY/VT
B+
X1
43
X51L
Fuse Block
- Instrument
Panel Left
30
85
KR76A
Retained
Accessory
Power
Relay 1
F5DL
50A
87
86
F4DL
15A
F50DL
15A
F8DL
10A
X2
44
B+
X1
6
X51R
Fuse Block -
Instrument
Panel Right
85
30
KR76B
Retained
Accessory
Power
Relay 2
86
87
F50DR
15A
F4DR
15A
X2
22
1850
BK
1050
BK
G218
G210

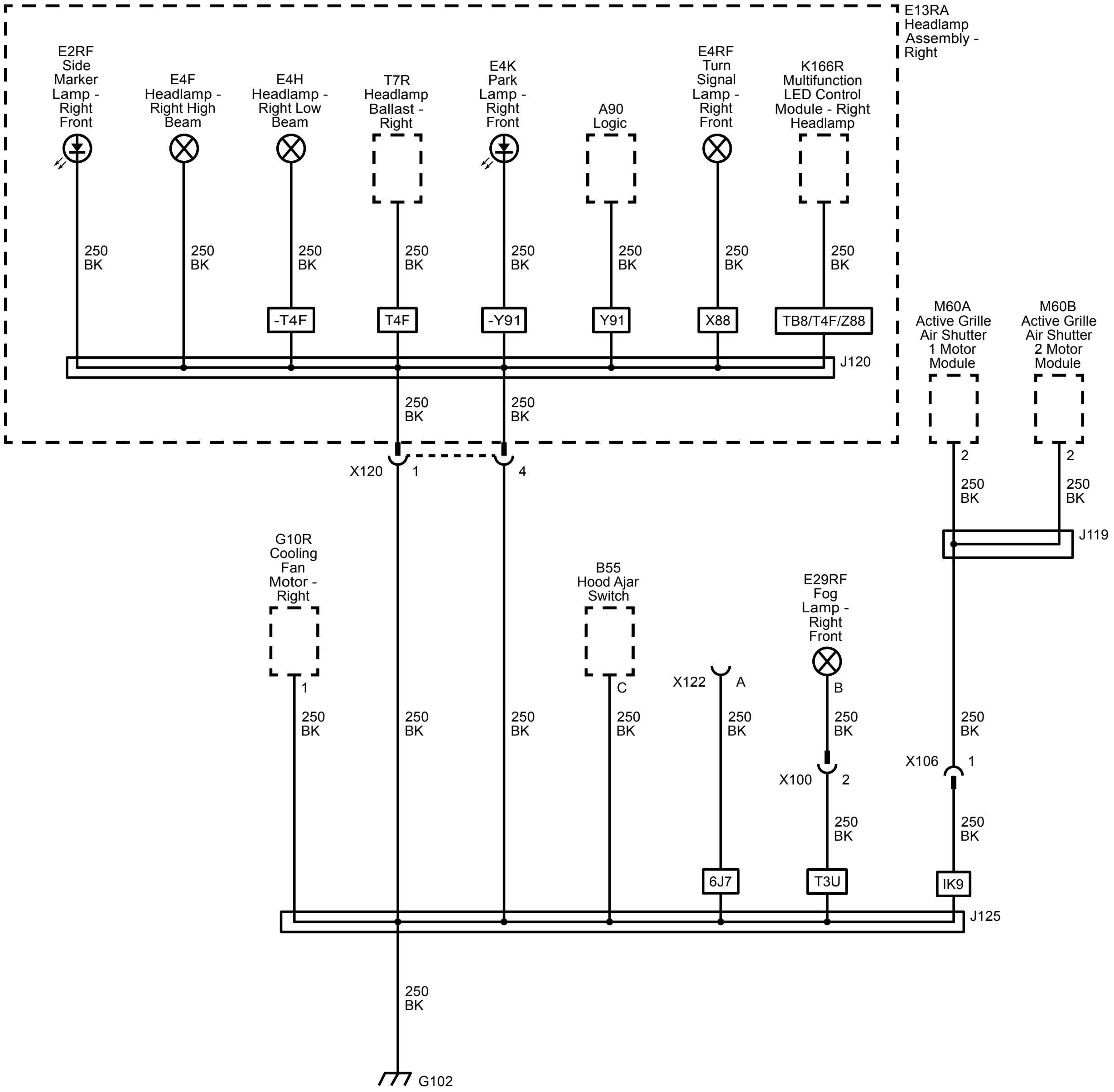
G101 (X88 or Z88)


E13LA Headlamp Assembly - Left
E2LF Side Marker Lamp - Left Front
E4E Headlamp - Left High Beam
E4G Headlamp - Left Low Beam
T7L Headlamp Ballast - Left
E4J Park Lamp - Left Front
A90 Logic
E4LF Turn Signal Lamp - Left Front
K166L Multifunction LED Control Module - Left Headlamp
150 BK
-T4F
T4F
-Y91
Y91
X88
TB8/T4F/Z88
J110
X110
1
4
B118B Windshield Washer Fluid Level Switch
G24 Windshield Washer Pump
G19 Rear Window Washer Pump
X50A Fuse Block - Underhood
P12 Horn
K14 Distance Sensing Cruise Control Module
E29LF Fog Lamp - Left Front
G10L Cooling Fan Motor - Left
2
2
2
X1
G4
1
3
B
1
X100
1
K59
T3U
J115
J114
G101

G101 (Z75)

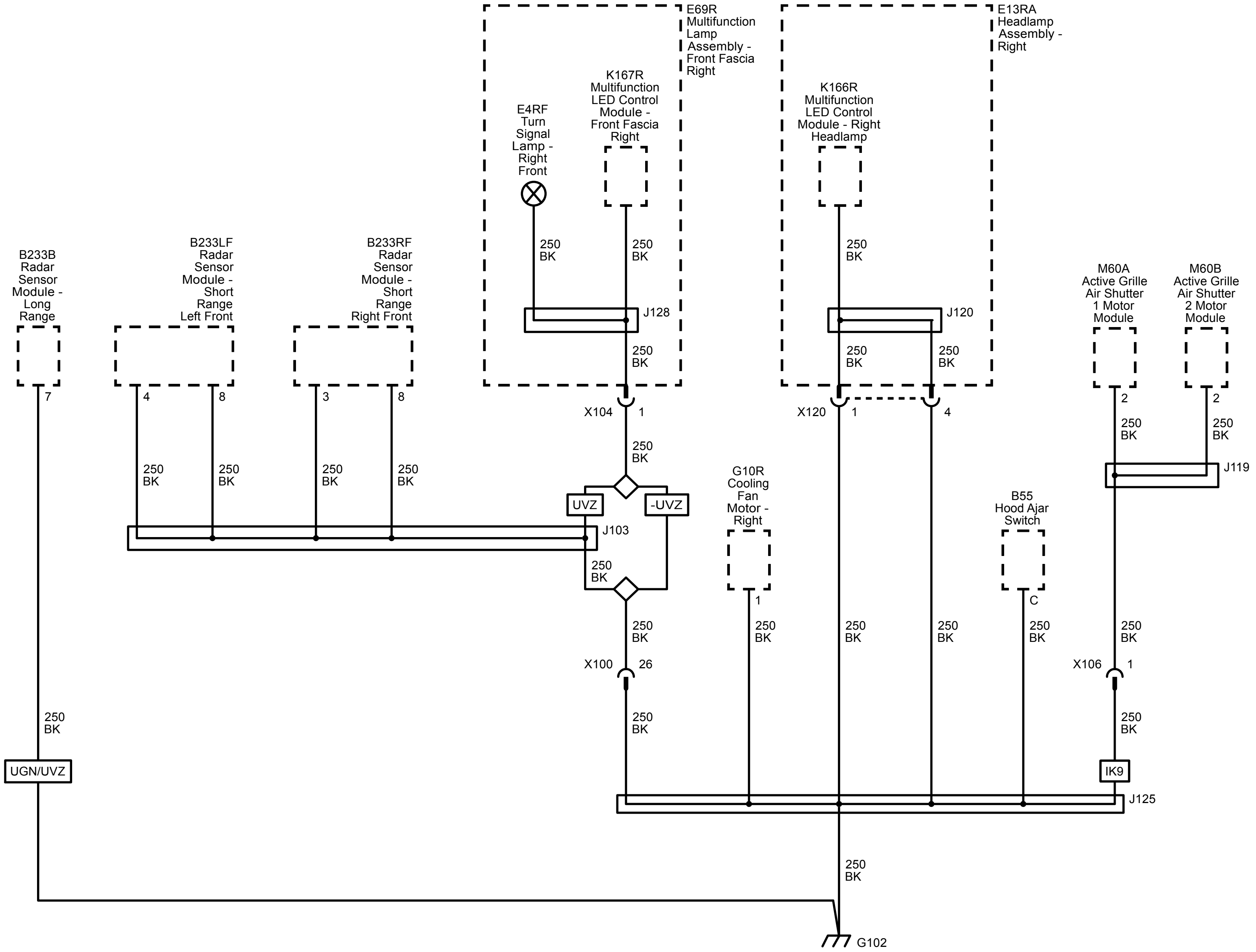

E69L Multifunction Lamp Assembly - Front Fascia Left
E4LF Turn Signal Lamp - Left Front
K167L Multifunction LED Control Module - Front Fascia Left
150 BK
150 BK
J118
150 BK
X101
1
150 BK
X100
25
150 BK
E13LA Headlamp Assembly - Left
K166L Multifunction LED Control Module - Left Headlamp
150 BK
J110
150 BK
150 BK
X110
1
4
P12 Horn
1
150 BK
150 BK
150 BK
X50A Fuse Block - Underhood
X1
G4
150 BK
B118B Windshield Washer Fluid Level Switch
2
150 BK
G24 Windshield Washer Pump
2
150 BK
G19 Rear Window Washer Pump
2
150 BK
G10L Cooling Fan Motor - Left
1
150 BK
J115
150 BK
J114
150 BK
G101

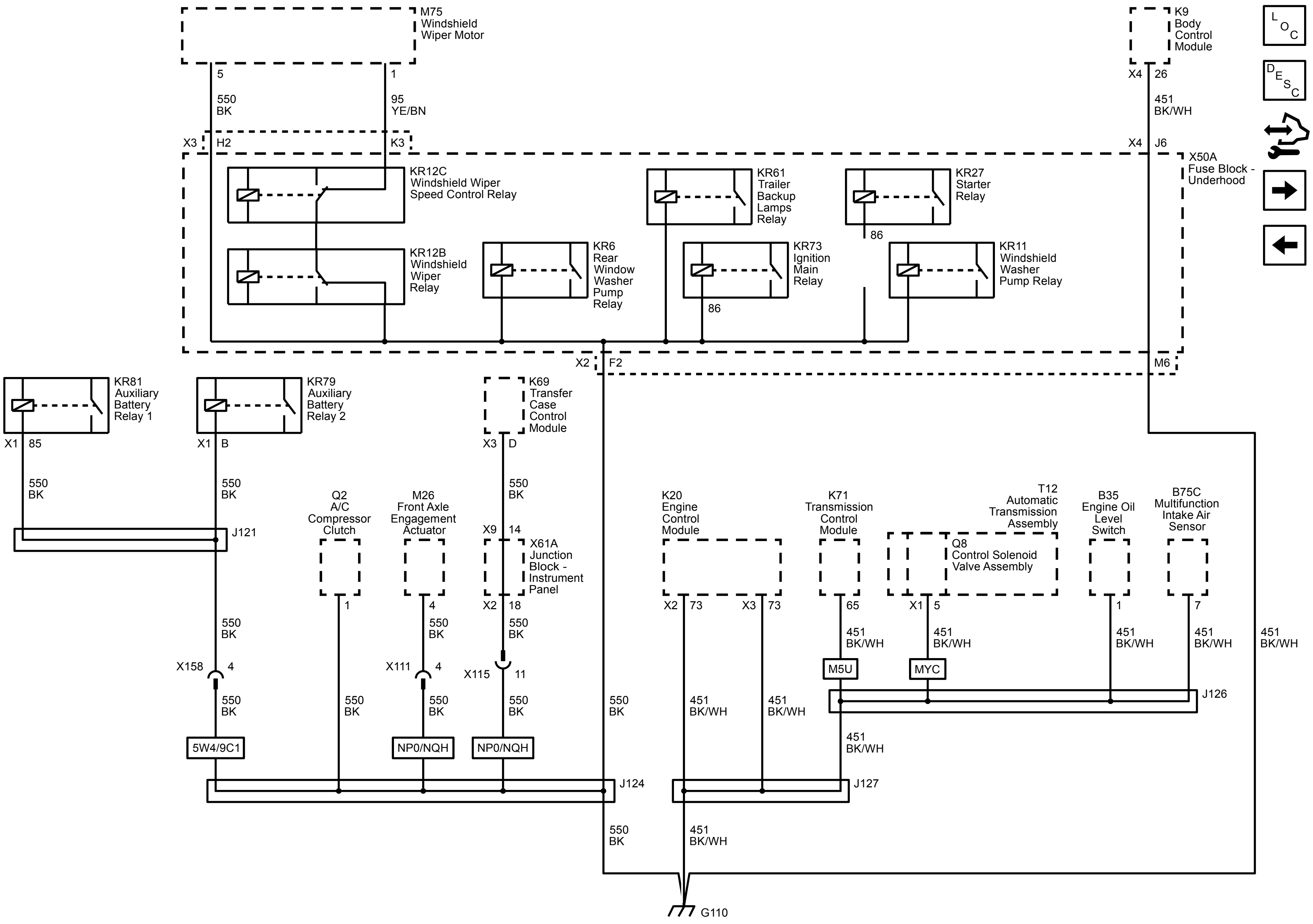
G102 (X88 or Z88)

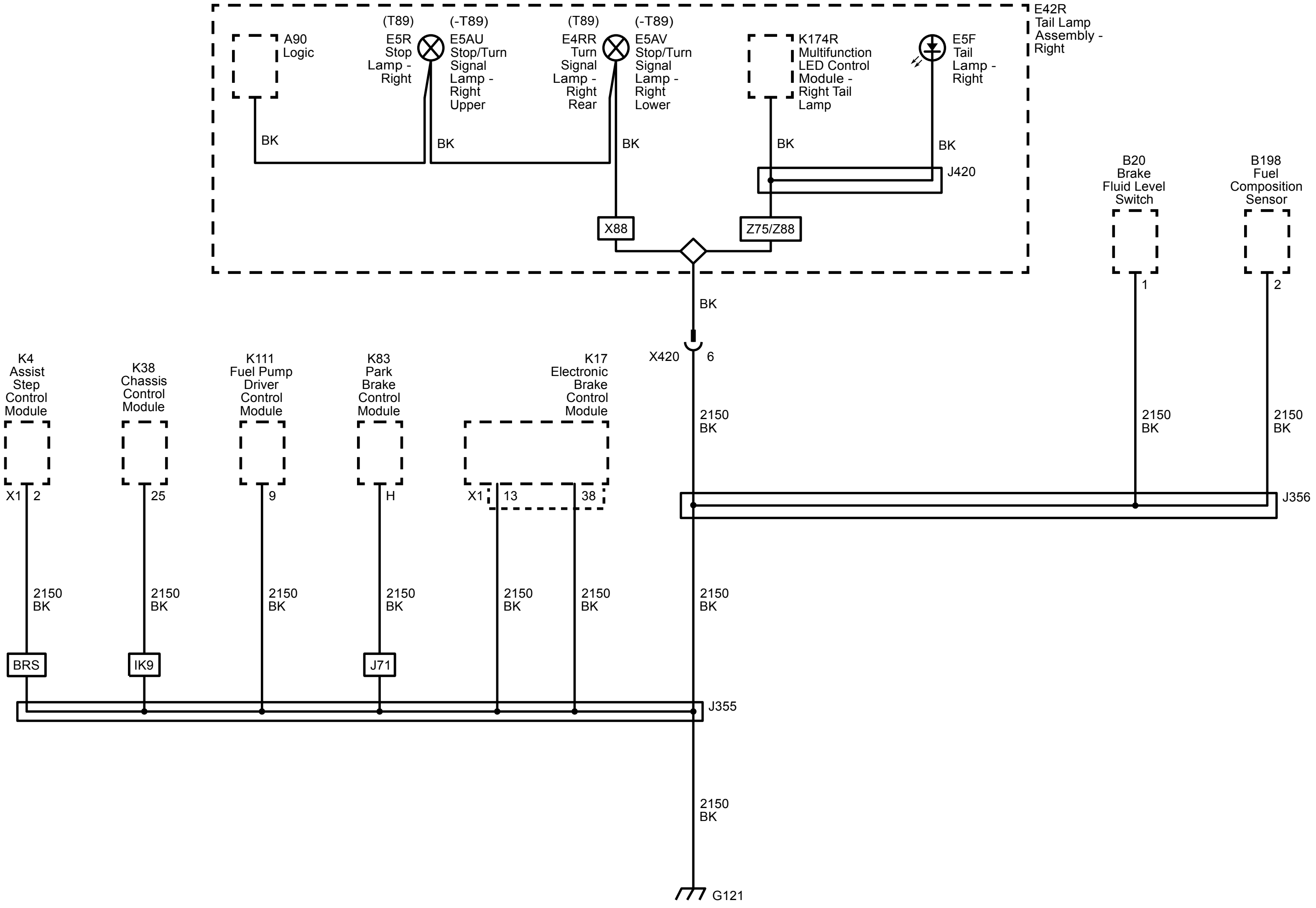


E13RA Headlamp Assembly - Right
E2RF Side Marker Lamp - Right Front
E4F Headlamp - Right High Beam
E4H Headlamp - Right Low Beam
T7R Headlamp Ballast - Right
E4K Park Lamp - Right Front
A90 Logic
E4RF Turn Signal Lamp - Right Front
K166R Multifunction LED Control Module - Right Headlamp
250 BK
-T4F
T4F
-Y91
Y91
X88
TB8/T4F/Z88
J120
X120
1
4
M60A Active Grille Air Shutter 1 Motor Module
M60B Active Grille Air Shutter 2 Motor Module
2
J119
G10R Cooling Fan Motor - Right
B55 Hood Ajar Switch
C
X122
A
E29RF Fog Lamp - Right Front
B
X100
X106
6J7
T3U
IK9
J125
G102

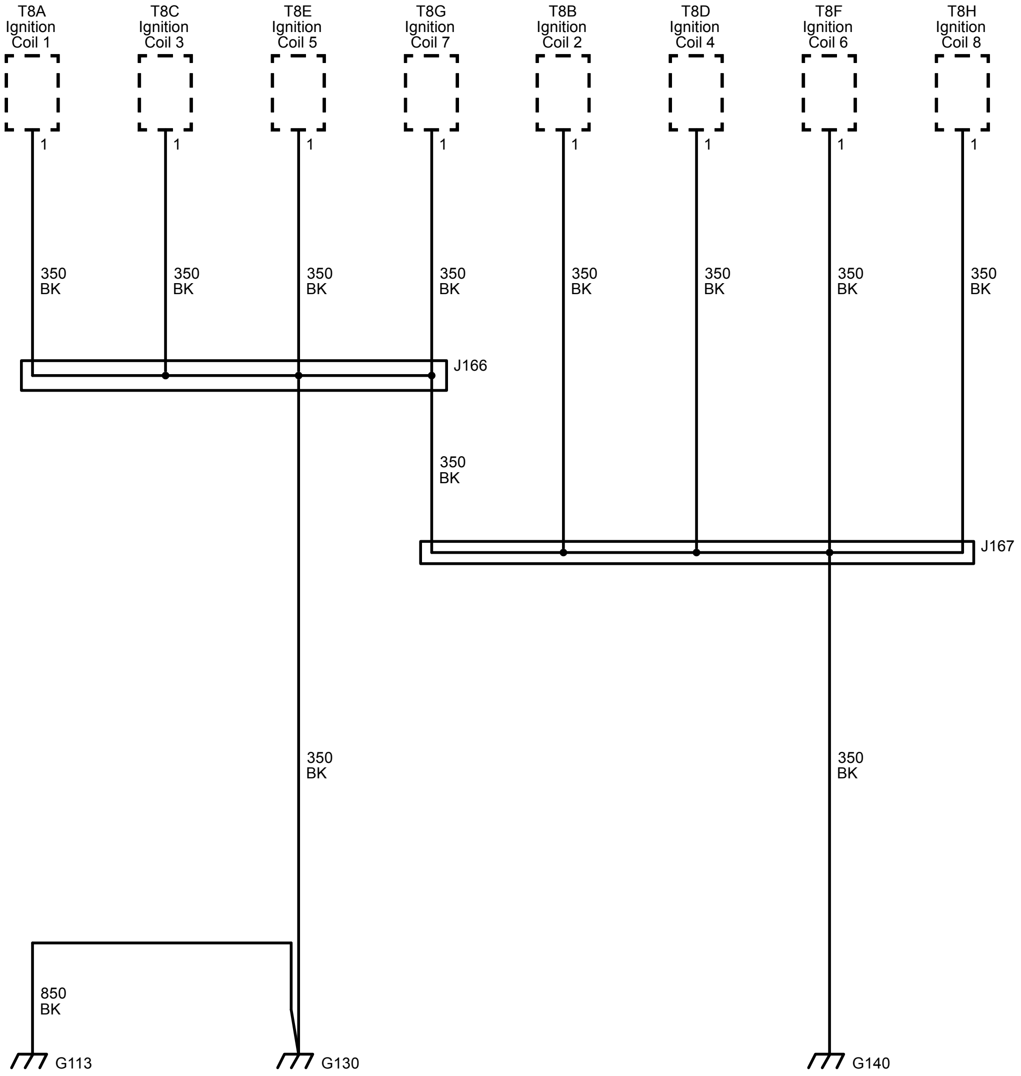
G102 (Z75)


E69R Multifunction Lamp Assembly - Front Fascia Right
K167R Multifunction LED Control Module - Front Fascia Right
E4RF Turn Signal Lamp - Right Front
E13RA Headlamp Assembly - Right
K166R Multifunction LED Control Module - Right Headlamp
B233B Radar Sensor Module - Long Range
B233LF Radar Sensor Module - Short Range Left Front
B233RF Radar Sensor Module - Short Range Right Front
M60A Active Grille Air Shutter 1 Motor Module
M60B Active Grille Air Shutter 2 Motor Module
G10R Cooling Fan Motor - Right
B55 Hood Ajar Switch
250 BK
J128
J120
X104 1
X120 1
4
7
4
8
3
8
2
2
J119
UVZ
-UVZ
J103
1
C
X100 26
X106 1
UGN/UVZ
IK9
J125
G102

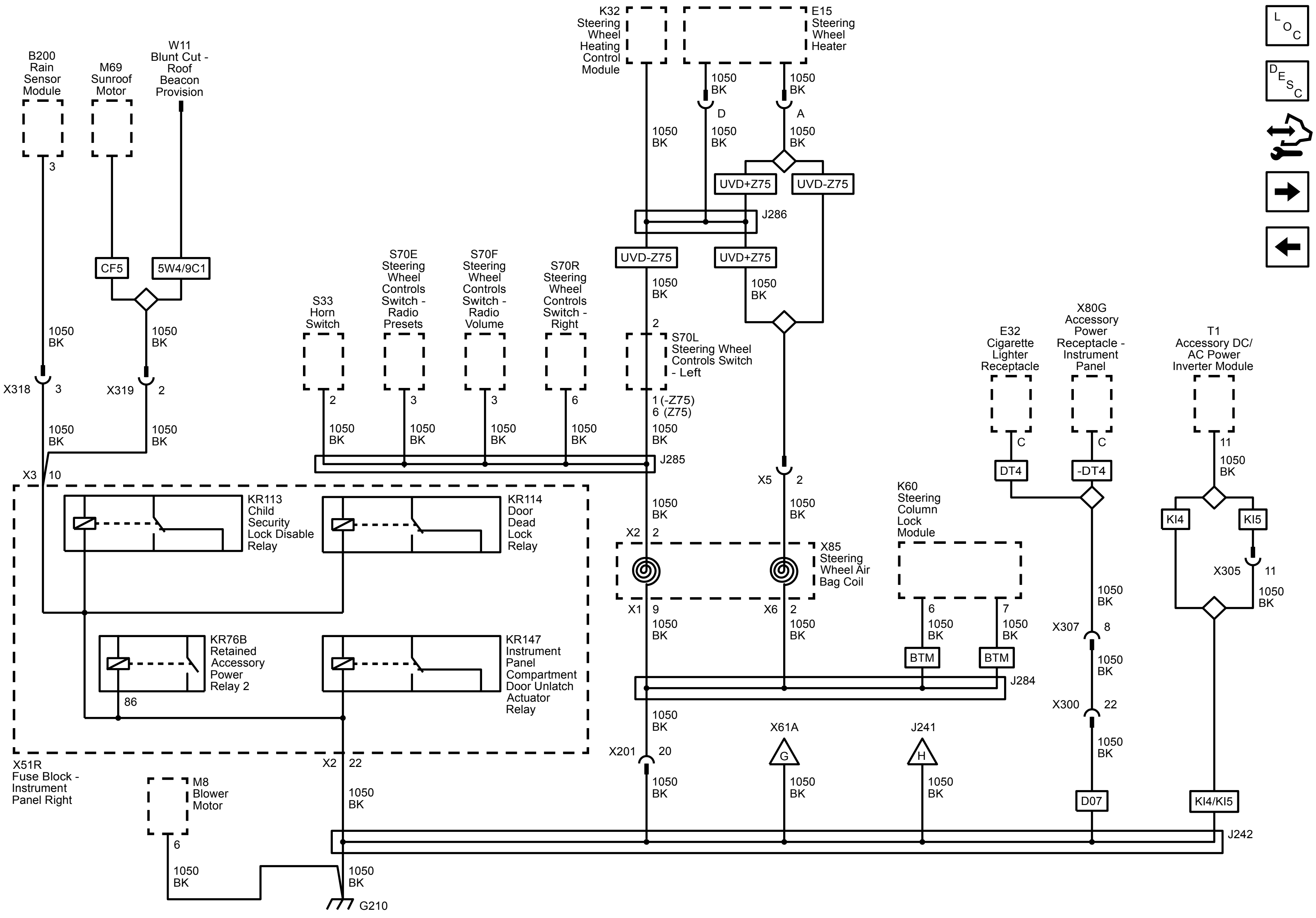

M75 Windshield Wiper Motor
K9 Body Control Module
X50A Fuse Block - Underhood
KR12C Windshield Wiper Speed Control Relay
KR12B Windshield Wiper Relay
KR6 Rear Window Washer Pump Relay
KR61 Trailer Backup Lamps Relay
KR73 Ignition Main Relay
KR27 Starter Relay
KR11 Windshield Washer Pump Relay
KR81 Auxiliary Battery Relay 1
KR79 Auxiliary Battery Relay 2
K69 Transfer Case Control Module
Q2 A/C Compressor Clutch
M26 Front Axle Engagement Actuator
X61A Junction Block - Instrument Panel
K20 Engine Control Module
K71 Transmission Control Module
T12 Automatic Transmission Assembly
Q8 Control Solenoid Valve Assembly
B35 Engine Oil Level Switch
B75C Multifunction Intake Air Sensor
550 BK
95 YE/BN
451 BK/WH
X3 H2
K3
X4 26
X4 J6
X2 F2
M6
86
X1 85
X1 B
X3 D
X9 14
X2 18
X2 73
X3 73
65
X1 5
1
4
7
J121
J124
J126
J127
X158 4
X111 4
X115 11
5W4/9C1
NP0/NQH
M5U
MYC
G110


E42R
Tail Lamp
Assembly -
Right
A90
Logic
(T89)
E5R
Stop
Lamp -
Right
(-T89)
E5AU
Stop/Turn
Signal
Lamp -
Right
Upper
(T89)
E4RR
Turn
Signal
Lamp -
Right
Rear
(-T89)
E5AV
Stop/Turn
Signal
Lamp -
Right
Lower
K174R
Multifunction
LED Control
Module -
Right Tail
Lamp
E5F
Tail
Lamp -
Right
BK
BK
BK
BK
BK
J420
X88
Z75/Z88
BK
X420
6
B20
Brake
Fluid Level
Switch
1
B198
Fuel
Composition
Sensor
2
K4
Assist
Step
Control
Module
X1
2
K38
Chassis
Control
Module
25
K111
Fuel Pump
Driver
Control
Module
9
K83
Park
Brake
Control
Module
H
K17
Electronic
Brake
Control
Module
X1
13
38
2150
BK
2150
BK
2150
BK
J356
2150
BK
2150
BK
2150
BK
2150
BK
2150
BK
2150
BK
2150
BK
BRS
IK9
J71
J355
2150
BK
G121

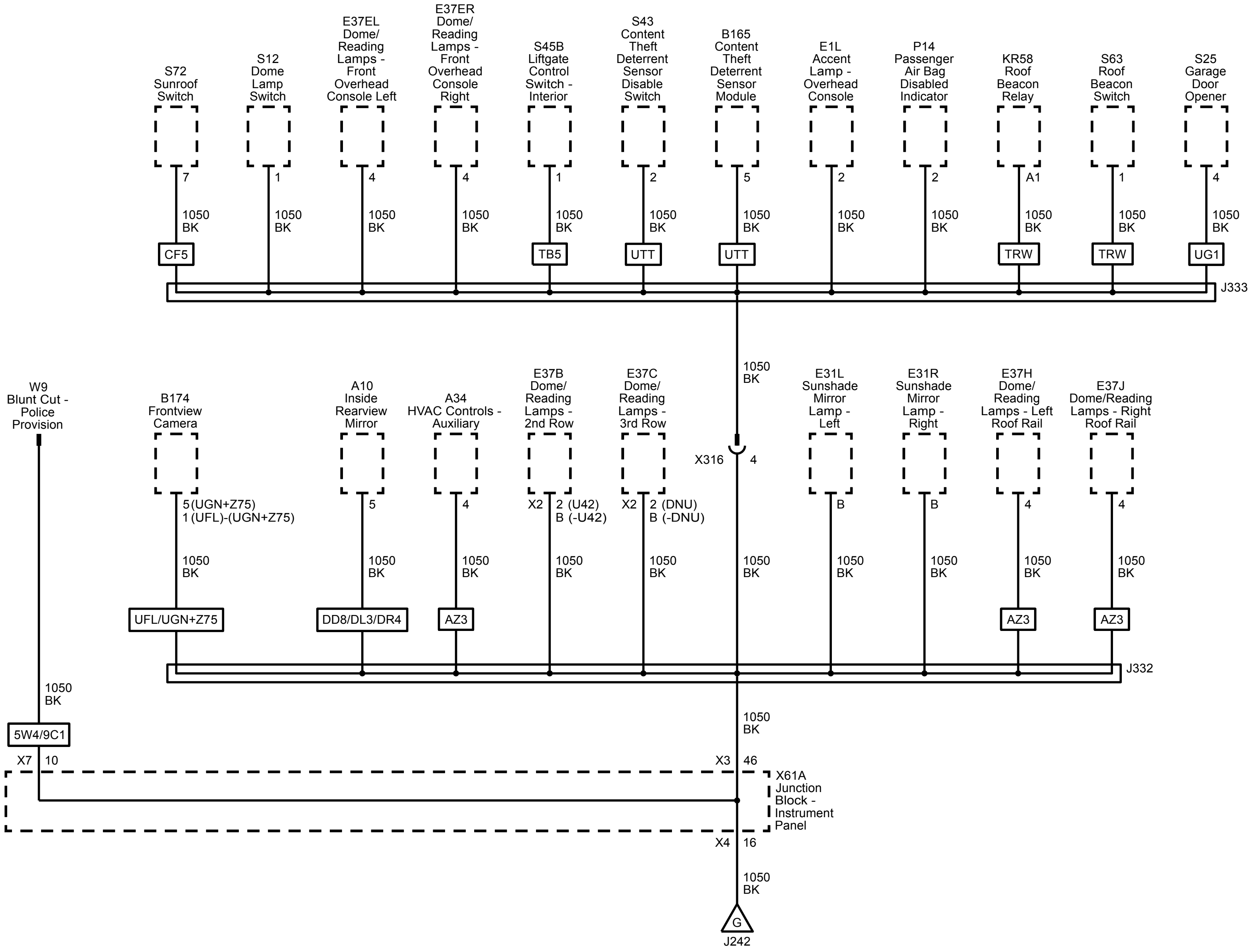
G113, G130 and G140


T8A Ignition Coil 1
T8C Ignition Coil 3
T8E Ignition Coil 5
T8G Ignition Coil 7
T8B Ignition Coil 2
T8D Ignition Coil 4
T8F Ignition Coil 6
T8H Ignition Coil 8
1
1
1
1
1
1
1
1
350 BK
350 BK
350 BK
350 BK
350 BK
350 BK
350 BK
350 BK
J166
350 BK
J167
350 BK
350 BK
850 BK
G113
G130
G140

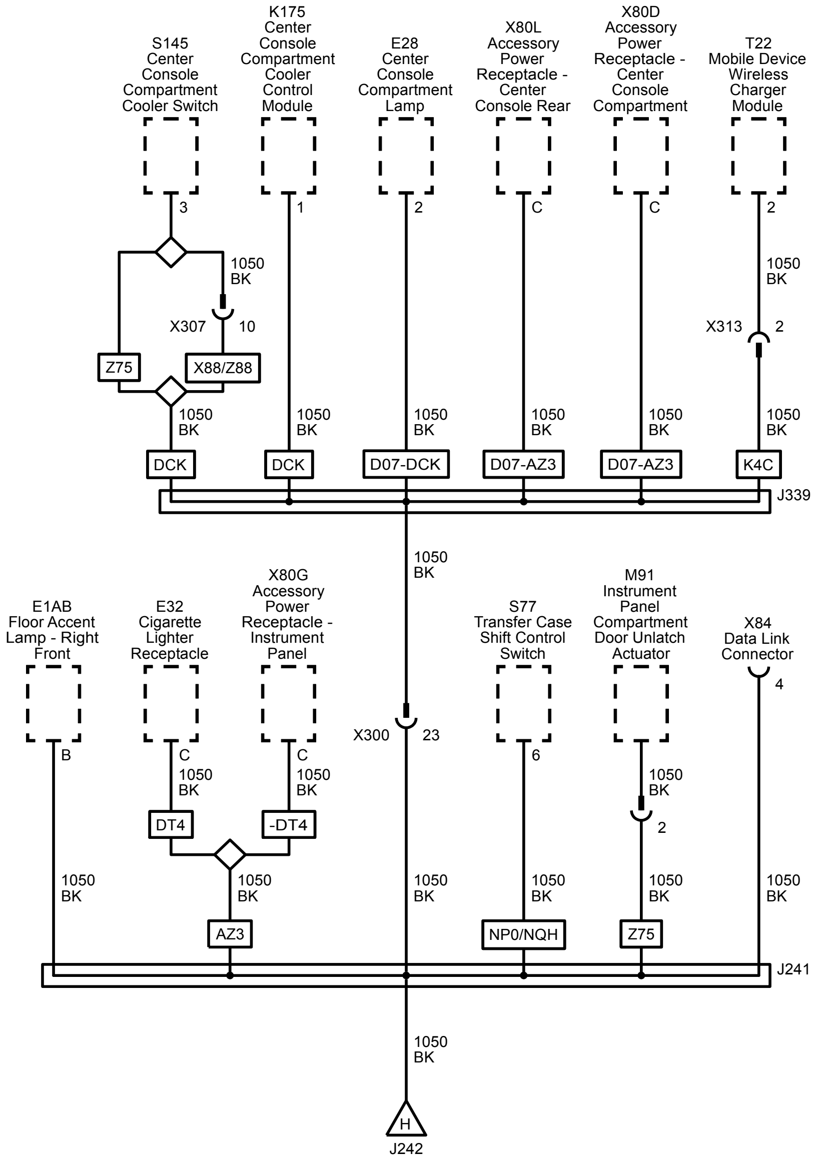
G210 (1 of 3)


B200 Rain Sensor Module
M69 Sunroof Motor
W11 Blunt Cut - Roof Beacon Provision
3
CF5
5W4/9C1
1050 BK
1050 BK
X318
3
X319
2
1050 BK
1050 BK
X3
10
K32 Steering Wheel Heating Control Module
E15 Steering Wheel Heater
1050 BK
D
1050 BK
A
1050 BK
1050 BK
1050 BK
UVD+Z75
UVD-Z75
J286
UVD-Z75
UVD+Z75
1050 BK
1050 BK
2
S33 Horn Switch
S70E Steering Wheel Controls Switch - Radio Presets
S70F Steering Wheel Controls Switch - Radio Volume
S70R Steering Wheel Controls Switch - Right
S70L Steering Wheel Controls Switch - Left
2
3
3
6
1 (-Z75)
6 (Z75)
1050 BK
1050 BK
1050 BK
1050 BK
1050 BK
J285
X5
2
1050 BK
1050 BK
KR113 Child Security Lock Disable Relay
KR114 Door Dead Lock Relay
KR76B Retained Accessory Power Relay 2
86
KR147 Instrument Panel Compartment Door Unlatch Actuator Relay
X51R Fuse Block - Instrument Panel Right
X2
22
X2
2
X85 Steering Wheel Air Bag Coil
X1
9
X6
2
1050 BK
1050 BK
K60 Steering Column Lock Module
6
7
1050 BK
1050 BK
BTM
BTM
J284
1050 BK
X201
20
1050 BK
X61A
G
1050 BK
J241
H
1050 BK
E32 Cigarette Lighter Receptacle
X80G Accessory Power Receptacle - Instrument Panel
T1 Accessory DC/AC Power Inverter Module
C
C
11
DT4
-DT4
1050 BK
KI4
KI5
X305
11
1050 BK
1050 BK
X307
8
1050 BK
X300
22
1050 BK
D07
KI4/KI5
J242
M8 Blower Motor
6
1050 BK
1050 BK
1050 BK
G210

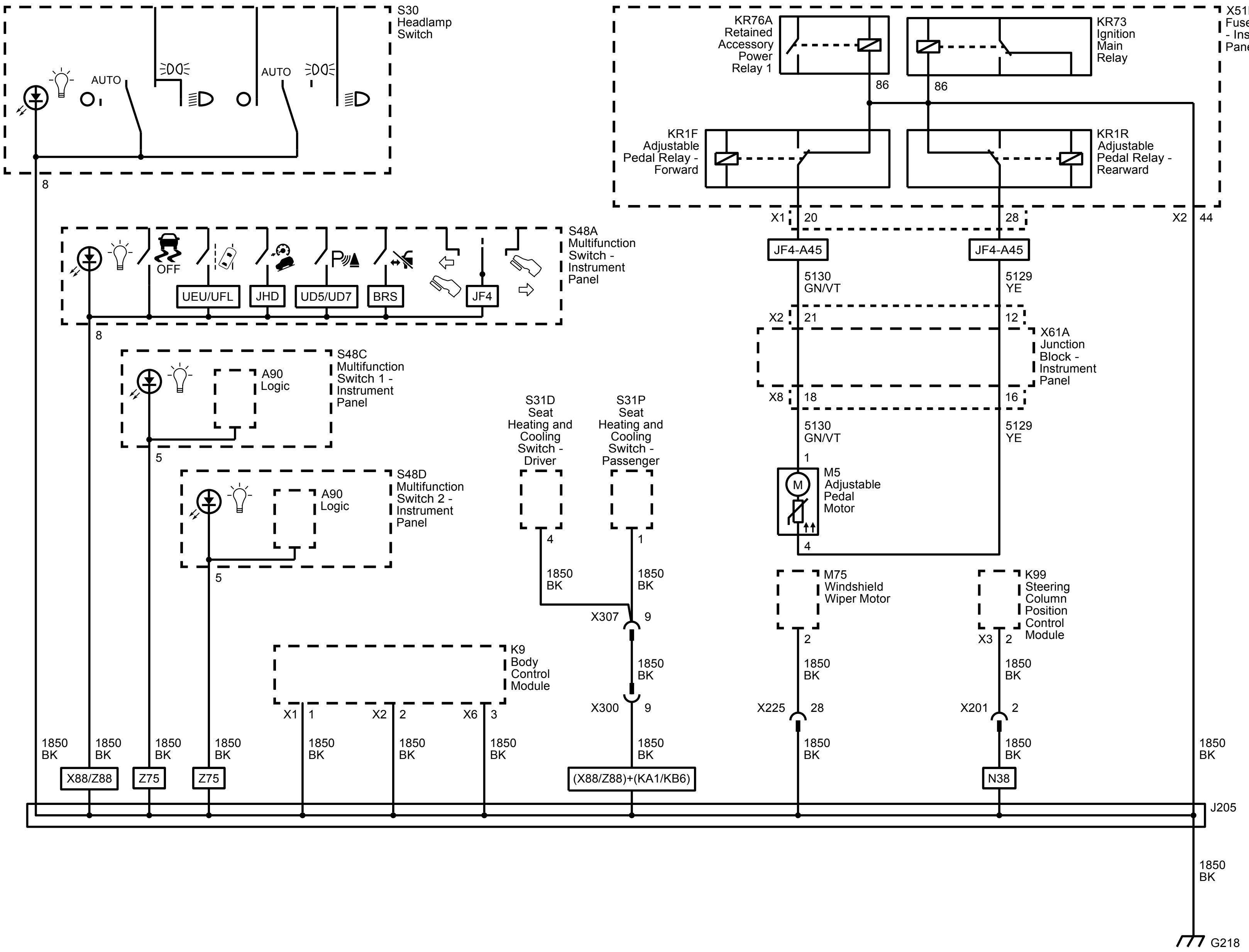
G210 (2 of 3)


S72 Sunroof Switch
S12 Dome Lamp Switch
E37EL Dome/ Reading Lamps - Front Overhead Console Left
E37ER Dome/ Reading Lamps - Front Overhead Console Right
S45B Liftgate Control Switch - Interior
S43 Content Theft Deterrent Sensor Disable Switch
B165 Content Theft Deterrent Sensor Module
E1L Accent Lamp - Overhead Console
P14 Passenger Air Bag Disabled Indicator
KR58 Roof Beacon Relay
S63 Roof Beacon Switch
S25 Garage Door Opener
7
1
4
4
1
2
5
2
2
A1
1
4
1050 BK
CF5
TB5
UTT
UTT
TRW
TRW
UG1
J333
1050 BK
W9 Blunt Cut - Police Provision
B174 Frontview Camera
A10 Inside Rearview Mirror
A34 HVAC Controls - Auxiliary
E37B Dome/ Reading Lamps - 2nd Row
E37C Dome/ Reading Lamps - 3rd Row
E31L Sunshade Mirror Lamp - Left
E31R Sunshade Mirror Lamp - Right
E37H Dome/ Reading Lamps - Left Roof Rail
E37J Dome/Reading Lamps - Right Roof Rail
X316
4
5(UGN+Z75)
1 (UFL)-(UGN+Z75)
5
4
X2
2 (U42)
B (-U42)
X2
2 (DNU)
B (-DNU)
B
B
4
4
1050 BK
UFL/UGN+Z75
DD8/DL3/DR4
AZ3
AZ3
AZ3
J332
1050 BK
5W4/9C1
X7
10
X3
46
X61A Junction Block - Instrument Panel
X4
16
1050 BK
G
J242

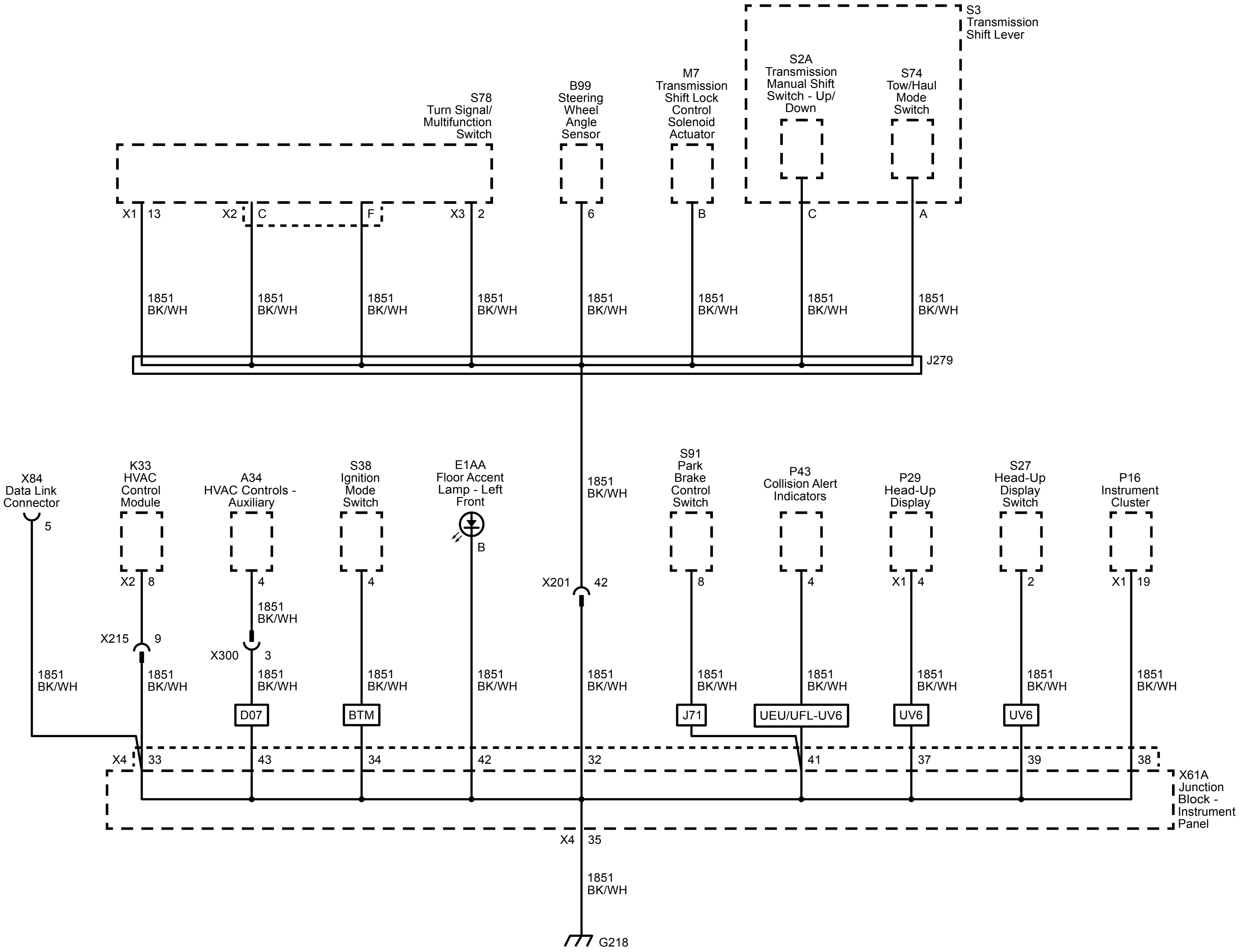
G210 (3 of 3)


S145 Center Console Compartment Cooler Switch
K175 Center Console Compartment Cooler Control Module
E28 Center Console Compartment Lamp
X80L Accessory Power Receptacle - Center Console Rear
X80D Accessory Power Receptacle - Center Console Compartment
T22 Mobile Device Wireless Charger Module
3
1
2
C
C
2
1050 BK
X307
10
X313
2
Z75
X88/Z88
1050 BK
DCK
DCK
D07-DCK
D07-AZ3
D07-AZ3
K4C
J339
1050 BK
E1AB Floor Accent Lamp - Right Front
E32 Cigarette Lighter Receptacle
X80G Accessory Power Receptacle - Instrument Panel
S77 Transfer Case Shift Control Switch
M91 Instrument Panel Compartment Door Unlatch Actuator
X84 Data Link Connector
4
X300
23
B
C
C
6
2
DT4
-DT4
AZ3
NP0/NQH
Z75
J241
1050 BK
H
J242

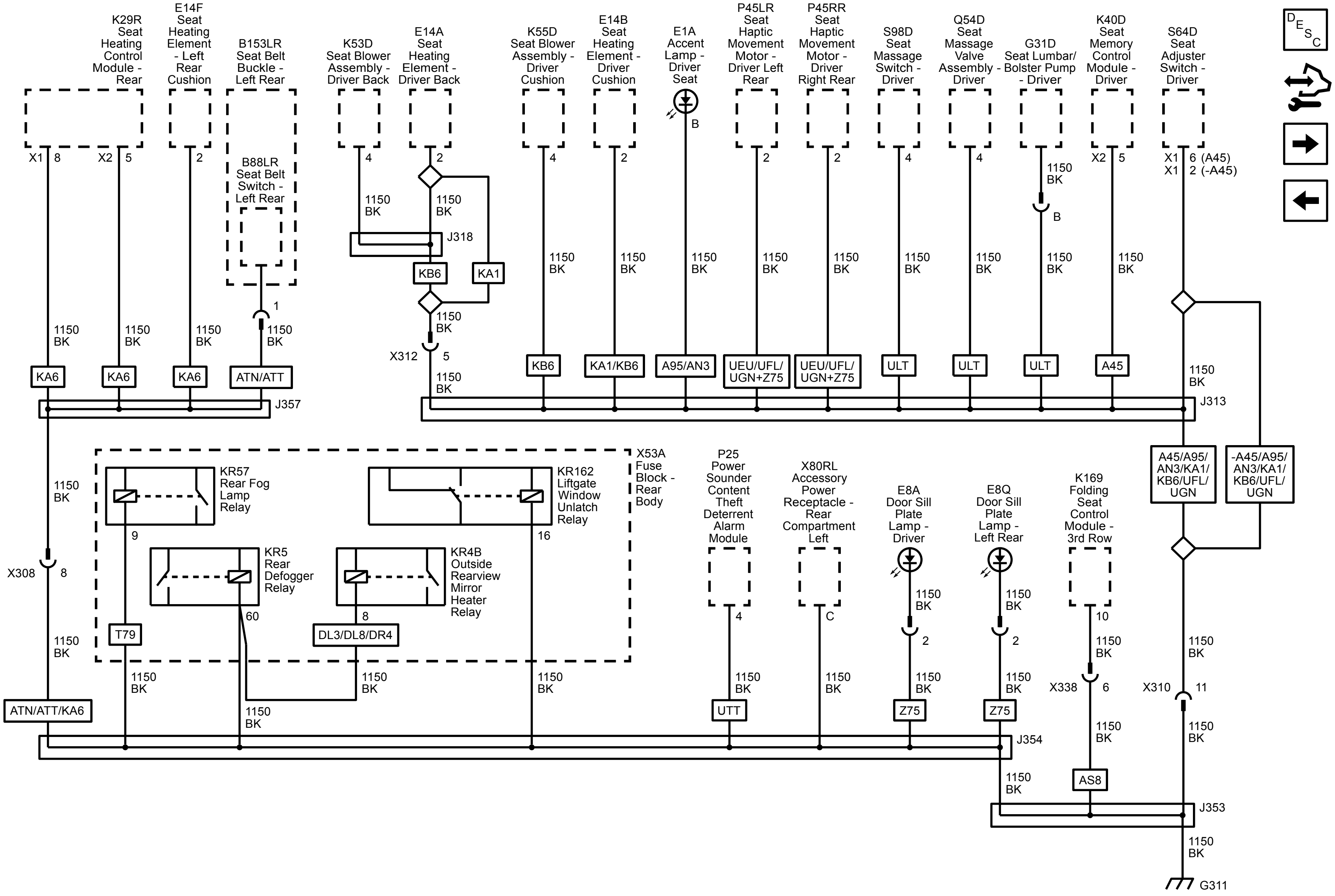
G218 (1 of 2)

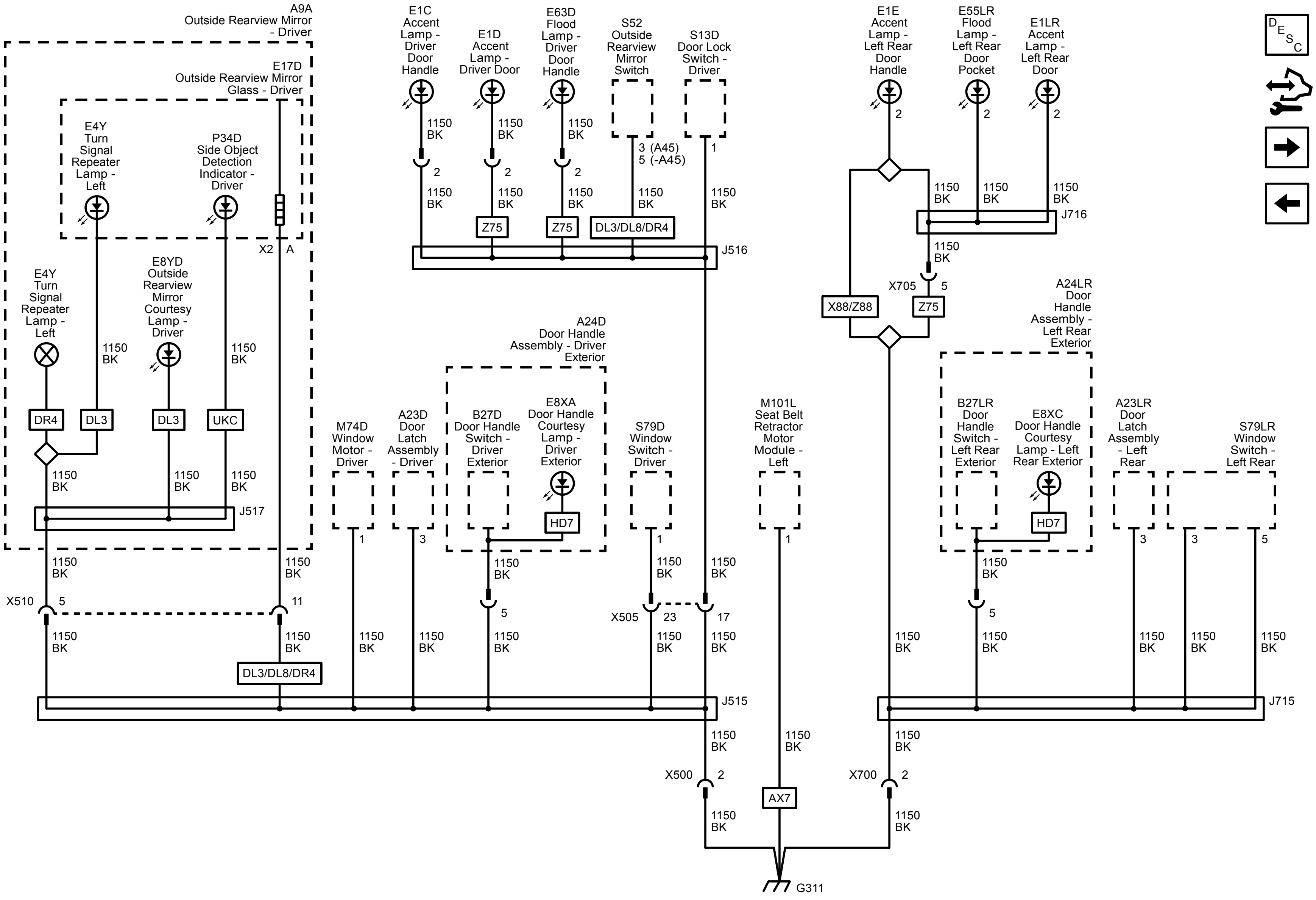

S30
Headlamp
Switch
AUTO
AUTO
8
KR76A
Retained
Accessory
Power
Relay 1
KR73
Ignition
Main
Relay
X51L
Fuse Block
- Instrument
Panel Left
86
86
KR1F
Adjustable
Pedal Relay -
Forward
KR1R
Adjustable
Pedal Relay -
Rearward
X1
20
28
X2
44
S48A
Multifunction
Switch -
Instrument
Panel
OFF
UEU/UFL
JHD
UD5/UD7
BRS
JF4
8
JF4-A45
JF4-A45
5130
GN/VT
5129
YE
X2
21
12
X61A
Junction
Block -
Instrument
Panel
X8
18
16
S48C
Multifunction
Switch 1 -
Instrument
Panel
A90
Logic
5
5130
GN/VT
5129
YE
S31D
Seat
Heating and
Cooling
Switch -
Driver
S31P
Seat
Heating and
Cooling
Switch -
Passenger
1
M
M5
Adjustable
Pedal
Motor
4
S48D
Multifunction
Switch 2 -
Instrument
Panel
A90
Logic
5
4
1
1850
BK
1850
BK
M75
Windshield
Wiper Motor
K99
Steering
Column
Position
Control
Module
X307
9
2
X3
2
K9
Body
Control
Module
1850
BK
1850
BK
1850
BK
X1
1
X2
2
X6
3
X300
9
X225
28
X201
2
1850
BK
1850
BK
1850
BK
1850
BK
1850
BK
1850
BK
1850
BK
1850
BK
1850
BK
1850
BK
1850
BK
1850
BK
X88/Z88
Z75
Z75
(X88/Z88)+(KA1/KB6)
N38
J205
1850
BK
G218

G218 (2 of 2)

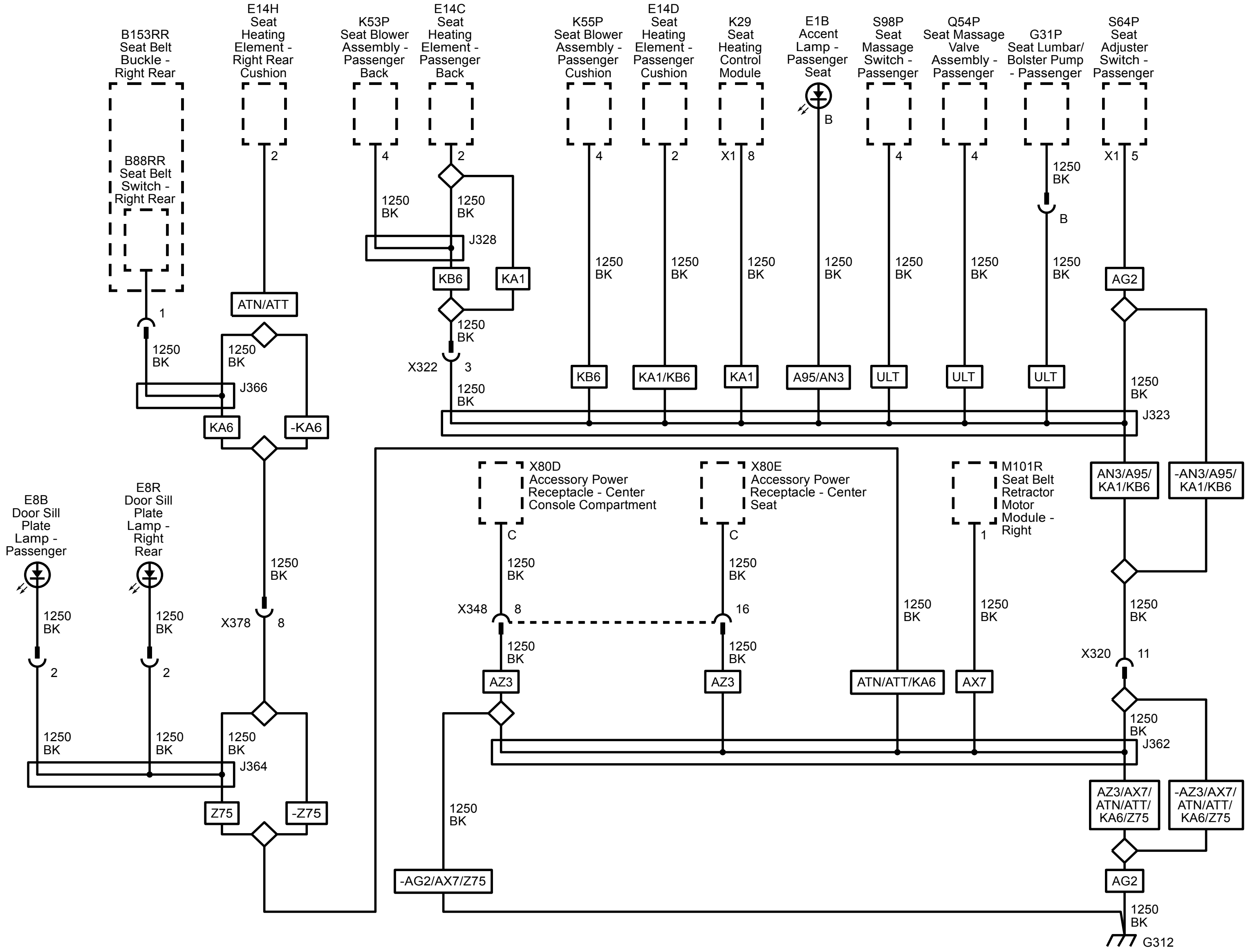

S3
Transmission
Shift Lever
S2A
Transmission
Manual Shift
Switch - Up/
Down
S74
Tow/Haul
Mode
Switch
S78
Turn Signal/
Multifunction
Switch
B99
Steering
Wheel
Angle
Sensor
M7
Transmission
Shift Lock
Control
Solenoid
Actuator
X1 13
X2 C
F
X3 2
6
B
C
A
1851
BK/WH
J279
X84
Data Link
Connector
5
K33
HVAC
Control
Module
X2 8
A34
HVAC Controls -
Auxiliary
4
S38
Ignition
Mode
Switch
4
E1AA
Floor Accent
Lamp - Left
Front
B
X201 42
S91
Park
Brake
Control
Switch
8
P43
Collision Alert
Indicators
4
P29
Head-Up
Display
X1 4
S27
Head-Up
Display
Switch
2
P16
Instrument
Cluster
X1 19
X215 9
X300 3
D07
BTM
J71
UEU/UFL-UV6
UV6
UV6
X4 33
43
34
42
32
41
37
39
38
X61A
Junction
Block -
Instrument
Panel
X4 35
G218

G311 (1 of 2)

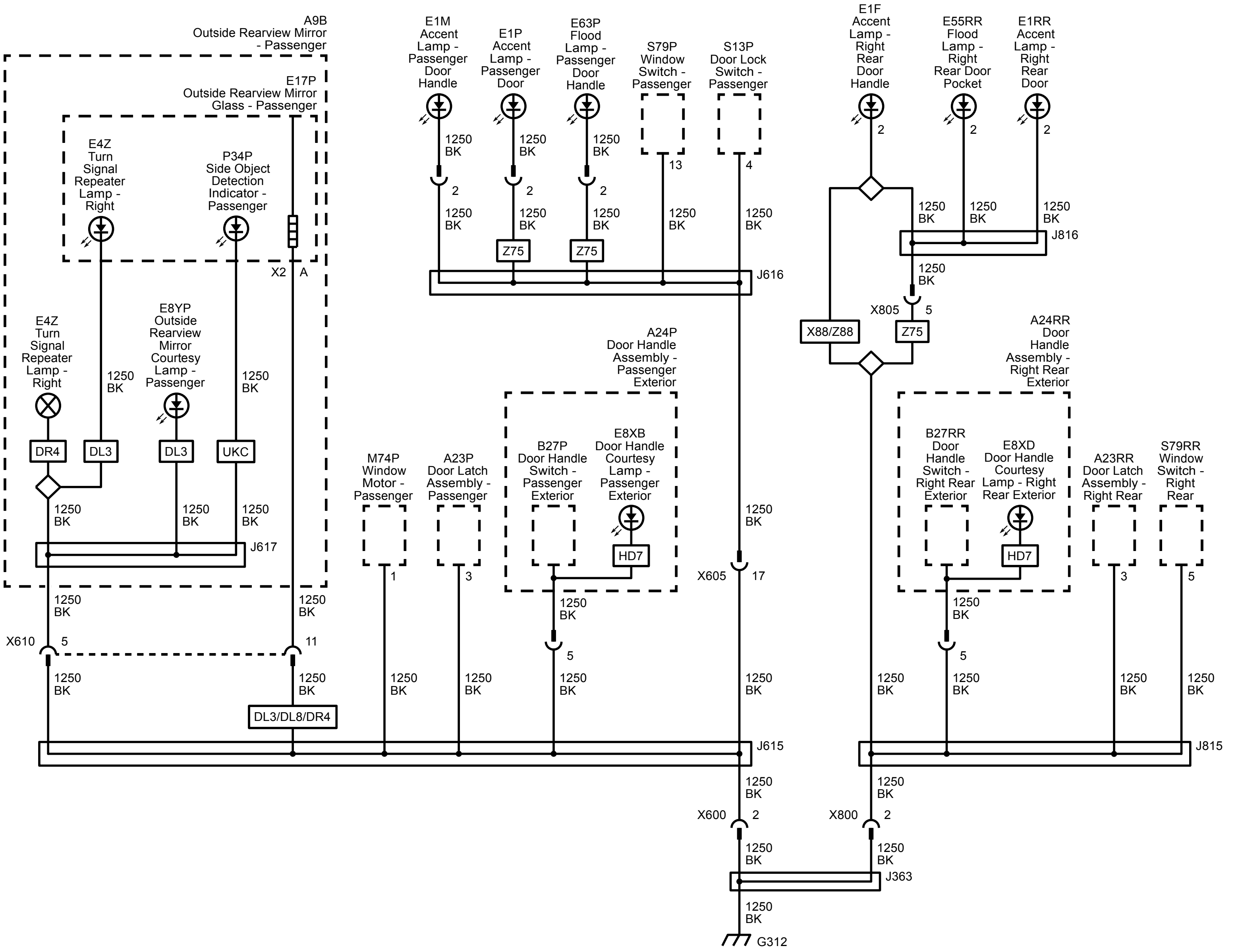

K29R Seat Heating Control Module - Rear
E14F Seat Heating Element - Left Rear Cushion
B153LR Seat Belt Buckle - Left Rear
B88LR Seat Belt Switch - Left Rear
K53D Seat Blower Assembly - Driver Back
E14A Seat Heating Element - Driver Back
K55D Seat Blower Assembly - Driver Cushion
E14B Seat Heating Element - Driver Cushion
E1A Accent Lamp - Driver Seat
P45LR Seat Haptic Movement Motor - Driver Left Rear
P45RR Seat Haptic Movement Motor - Driver Right Rear
S98D Seat Massage Switch - Driver
Q54D Seat Massage Valve Assembly - Driver
G31D Seat Lumbar/ Bolster Pump - Driver
K40D Seat Memory Control Module - Driver
S64D Seat Adjuster Switch - Driver
X1 8
X2 5
2
1
4
2
B
X1 6 (A45)
X1 2 (-A45)
X2 5
1150 BK
J318
KB6
KA1
X312 5
B
KA6
KA6
KA6
ATN/ATT
J357
KB6
KA1/KB6
A95/AN3
UEU/UFL/ UGN+Z75
UEU/UFL/ UGN+Z75
ULT
ULT
ULT
A45
J313
A45/A95/ AN3/KA1/ KB6/UFL/ UGN
-A45/A95/ AN3/KA1/ KB6/UFL/ UGN
X53A Fuse Block - Rear Body
KR57 Rear Fog Lamp Relay
KR162 Liftgate Window Unlatch Relay
KR5 Rear Defogger Relay
KR4B Outside Rearview Mirror Heater Relay
9
16
60
8
T79
DL3/DL8/DR4
X308 8
ATN/ATT/KA6
P25 Power Sounder Content Theft Deterrent Alarm Module
X80RL Accessory Power Receptacle - Rear Compartment Left
E8A Door Sill Plate Lamp - Driver
E8Q Door Sill Plate Lamp - Left Rear
K169 Folding Seat Control Module - 3rd Row
4
C
2
2
10
X338 6
X310 11
UTT
Z75
Z75
AS8
J354
J353
G311


A9A Outside Rearview Mirror - Driver
E17D Outside Rearview Mirror Glass - Driver
E4Y Turn Signal Repeater Lamp - Left
P34D Side Object Detection Indicator - Driver
X2
A
E4Y Turn Signal Repeater Lamp - Left
E8YD Outside Rearview Mirror Courtesy Lamp - Driver
1150 BK
DR4
DL3
DL3
UKC
J517
X510
5
11
DL3/DL8/DR4
E1C Accent Lamp - Driver Door Handle
E1D Accent Lamp - Driver Door
E63D Flood Lamp - Driver Door Handle
S52 Outside Rearview Mirror Switch
S13D Door Lock Switch - Driver
2
3 (A45)
5 (-A45)
1
Z75
Z75
DL3/DL8/DR4
J516
A24D Door Handle Assembly - Driver Exterior
M74D Window Motor - Driver
A23D Door Latch Assembly - Driver
B27D Door Handle Switch - Driver Exterior
E8XA Door Handle Courtesy Lamp - Driver Exterior
HD7
S79D Window Switch - Driver
M101L Seat Belt Retractor Motor Module - Left
X505
23
17
J515
X500
2
AX7
G311
E1E Accent Lamp - Left Rear Door Handle
E55LR Flood Lamp - Left Rear Door Pocket
E1LR Accent Lamp - Left Rear Door
J716
X705
5
X88/Z88
Z75
A24LR Door Handle Assembly - Left Rear Exterior
B27LR Door Handle Switch - Left Rear Exterior
E8XC Door Handle Courtesy Lamp - Left Rear Exterior
HD7
A23LR Door Latch Assembly - Left Rear
S79LR Window Switch - Left Rear
J715
X700

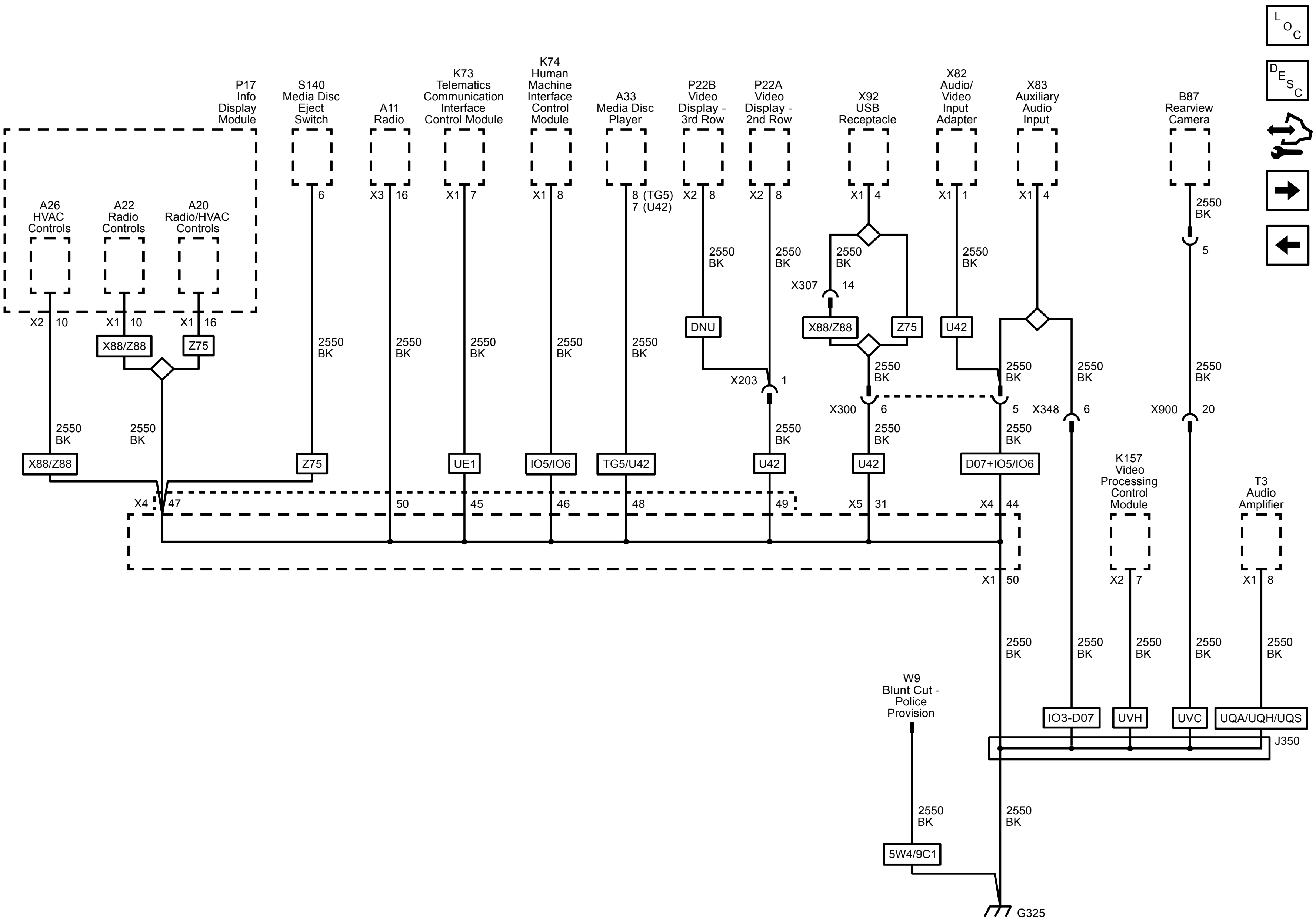
G312 (1 of 2)


B153RR Seat Belt Buckle - Right Rear
B88RR Seat Belt Switch - Right Rear
E14H Seat Heating Element - Right Rear Cushion
K53P Seat Blower Assembly - Passenger Back
E14C Seat Heating Element - Passenger Back
K55P Seat Blower Assembly - Passenger Cushion
E14D Seat Heating Element - Passenger Cushion
K29 Seat Heating Control Module
E1B Accent Lamp - Passenger Seat
S98P Seat Massage Switch - Passenger
Q54P Seat Massage Valve Assembly - Passenger
G31P Seat Lumbar/ Bolster Pump - Passenger
S64P Seat Adjuster Switch - Passenger
1
2
4
2
4
2
X1 8
B
4
4
B
X1 5
1250 BK
J328
J366
J323
J364
J362
ATN/ATT
KB6
KA1
KA6
-KA6
KB6
KA1/KB6
KA1
A95/AN3
ULT
ULT
ULT
AG2
X322 3
AN3/A95/ KA1/KB6
-AN3/A95/ KA1/KB6
X80D Accessory Power Receptacle - Center Console Compartment
X80E Accessory Power Receptacle - Center Seat
M101R Seat Belt Retractor Motor Module - Right
C
C
1
E8B Door Sill Plate Lamp - Passenger
E8R Door Sill Plate Lamp - Right Rear
X378 8
X348 8
16
X320 11
2
2
AZ3
AZ3
ATN/ATT/KA6
AX7
Z75
-Z75
AZ3/AX7/ ATN/ATT/ KA6/Z75
-AZ3/AX7/ ATN/ATT/ KA6/Z75
-AG2/AX7/Z75
AG2
G312

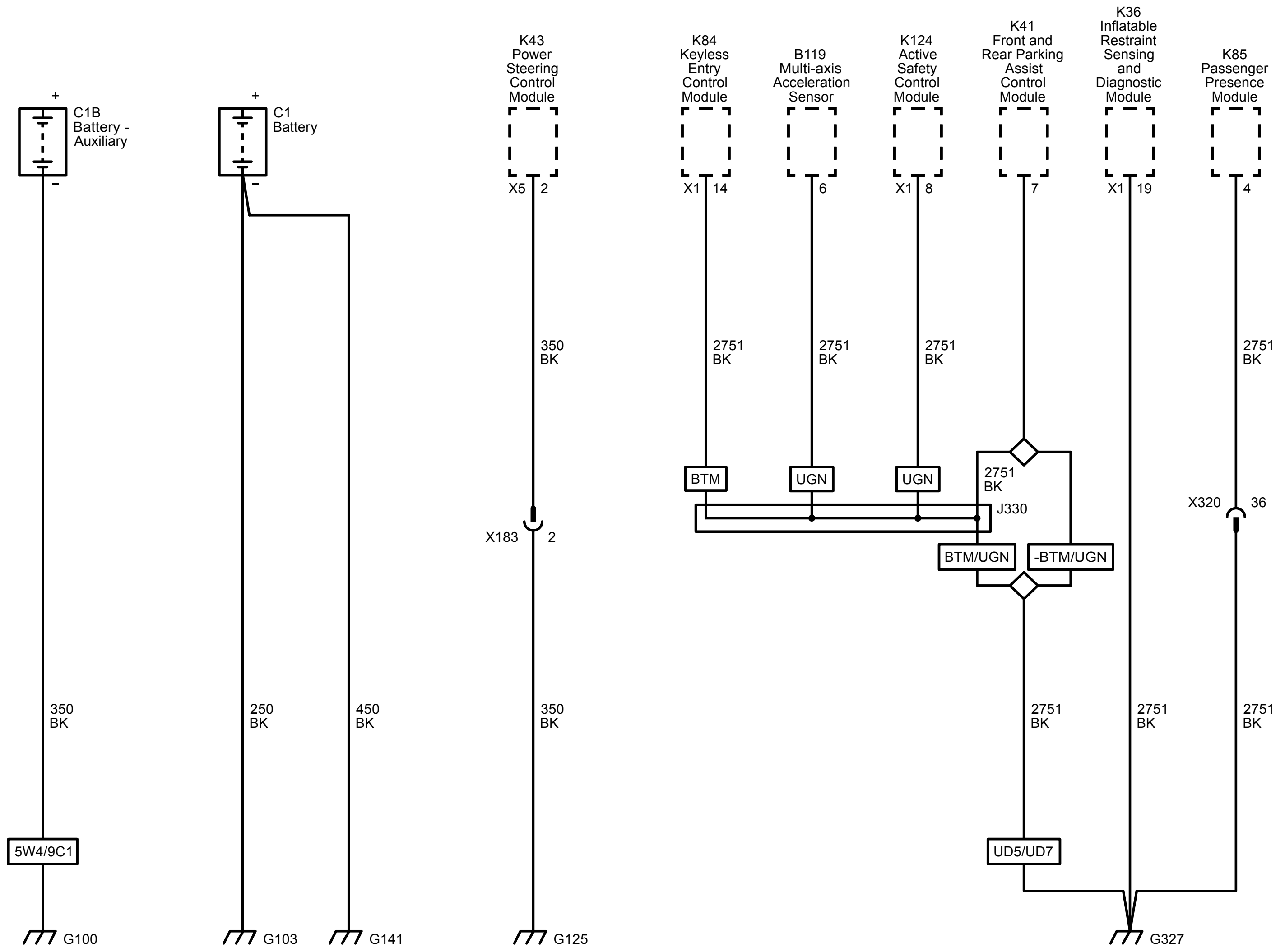
G312 (2 of 2)


A9B Outside Rearview Mirror - Passenger
E17P Outside Rearview Mirror Glass - Passenger
E4Z Turn Signal Repeater Lamp - Right
P34P Side Object Detection Indicator - Passenger
X2
A
E4Z Turn Signal Repeater Lamp - Right
E8YP Outside Rearview Mirror Courtesy Lamp - Passenger
1250 BK
DR4
DL3
DL3
UKC
J617
X610
5
11
DL3/DL8/DR4
E1M Accent Lamp - Passenger Door Handle
E1P Accent Lamp - Passenger Door
E63P Flood Lamp - Passenger Door Handle
S79P Window Switch - Passenger
S13P Door Lock Switch - Passenger
2
13
4
Z75
Z75
J616
A24P Door Handle Assembly - Passenger Exterior
B27P Door Handle Switch - Passenger Exterior
E8XB Door Handle Courtesy Lamp - Passenger Exterior
HD7
M74P Window Motor - Passenger
A23P Door Latch Assembly - Passenger
1
3
5
X605
17
J615
E1F Accent Lamp - Right Rear Door Handle
E55RR Flood Lamp - Right Rear Door Pocket
E1RR Accent Lamp - Right Rear Door
J816
X805
X88/Z88
Z75
A24RR Door Handle Assembly - Right Rear Exterior
B27RR Door Handle Switch - Right Rear Exterior
E8XD Door Handle Courtesy Lamp - Right Rear Exterior
HD7
A23RR Door Latch Assembly - Right Rear
S79RR Window Switch - Right Rear
J815
X600
2
X800
2
J363
G312

G325

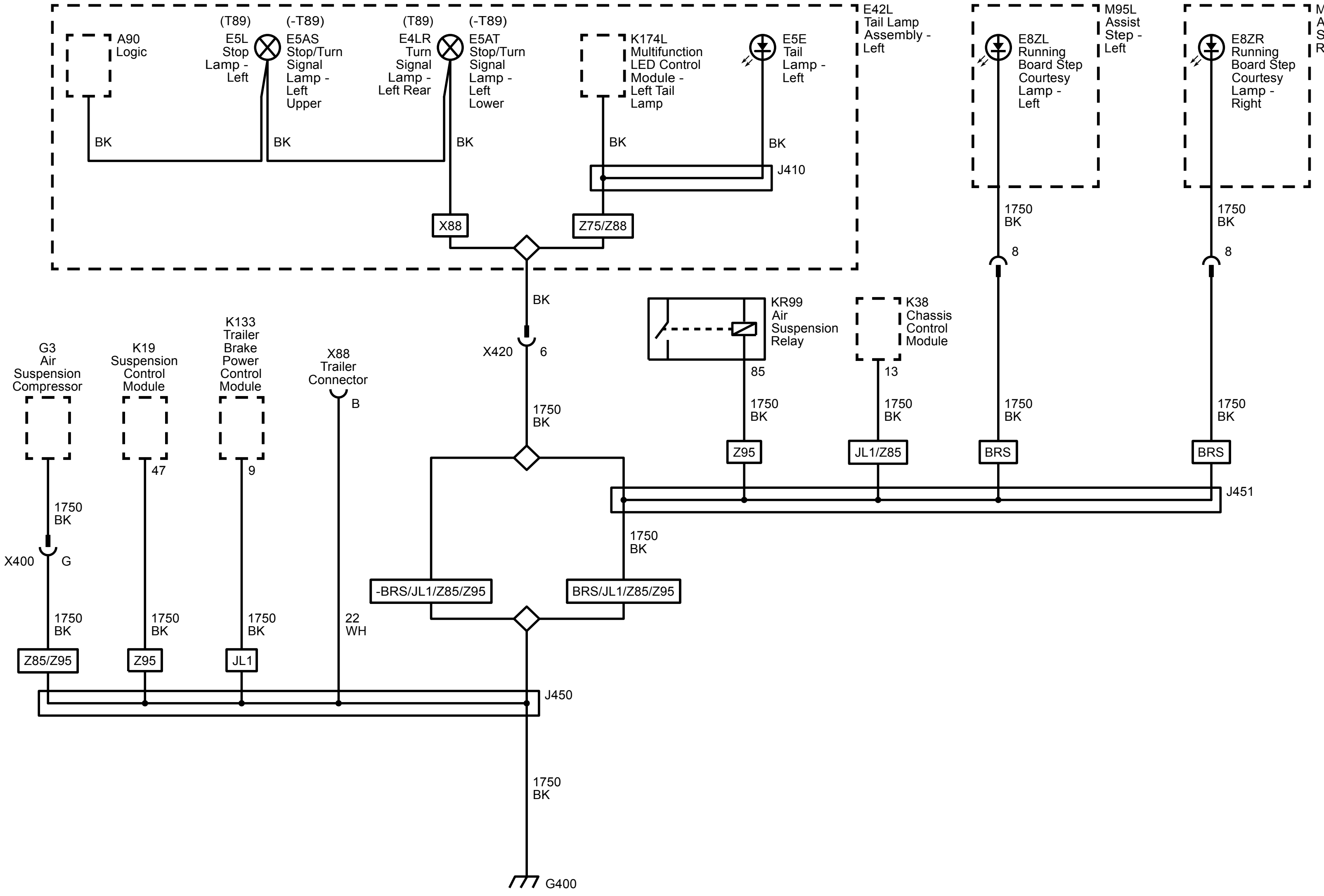

P17 Info Display Module
S140 Media Disc Eject Switch
A11 Radio
K73 Telematics Communication Interface Control Module
K74 Human Machine Interface Control Module
A33 Media Disc Player
P22B Video Display - 3rd Row
P22A Video Display - 2nd Row
X92 USB Receptacle
X82 Audio/ Video Input Adapter
X83 Auxiliary Audio Input
B87 Rearview Camera
A26 HVAC Controls
A22 Radio Controls
A20 Radio/HVAC Controls
X2 10
X1 10
X1 16
X88/Z88
Z75
6
X3 16
X1 7
X1 8
8 (TG5) 7 (U42)
X2 8
X2 8
X1 4
X1 1
X1 4
2550 BK
DNU
X307 14
U42
X203 1
X300 6
5 X348 6
X900 20
5
UE1
IO5/IO6
TG5/U42
U42
U42
D07+IO5/IO6
X4 47
50
45
46
48
49
X5 31
X4 44
X1 50
K157 Video Processing Control Module
T3 Audio Amplifier
X2 7
X1 8
IO3-D07
UVH
UVC
UQA/UQH/UQS
J350
W9 Blunt Cut - Police Provision
5W4/9C1
G325

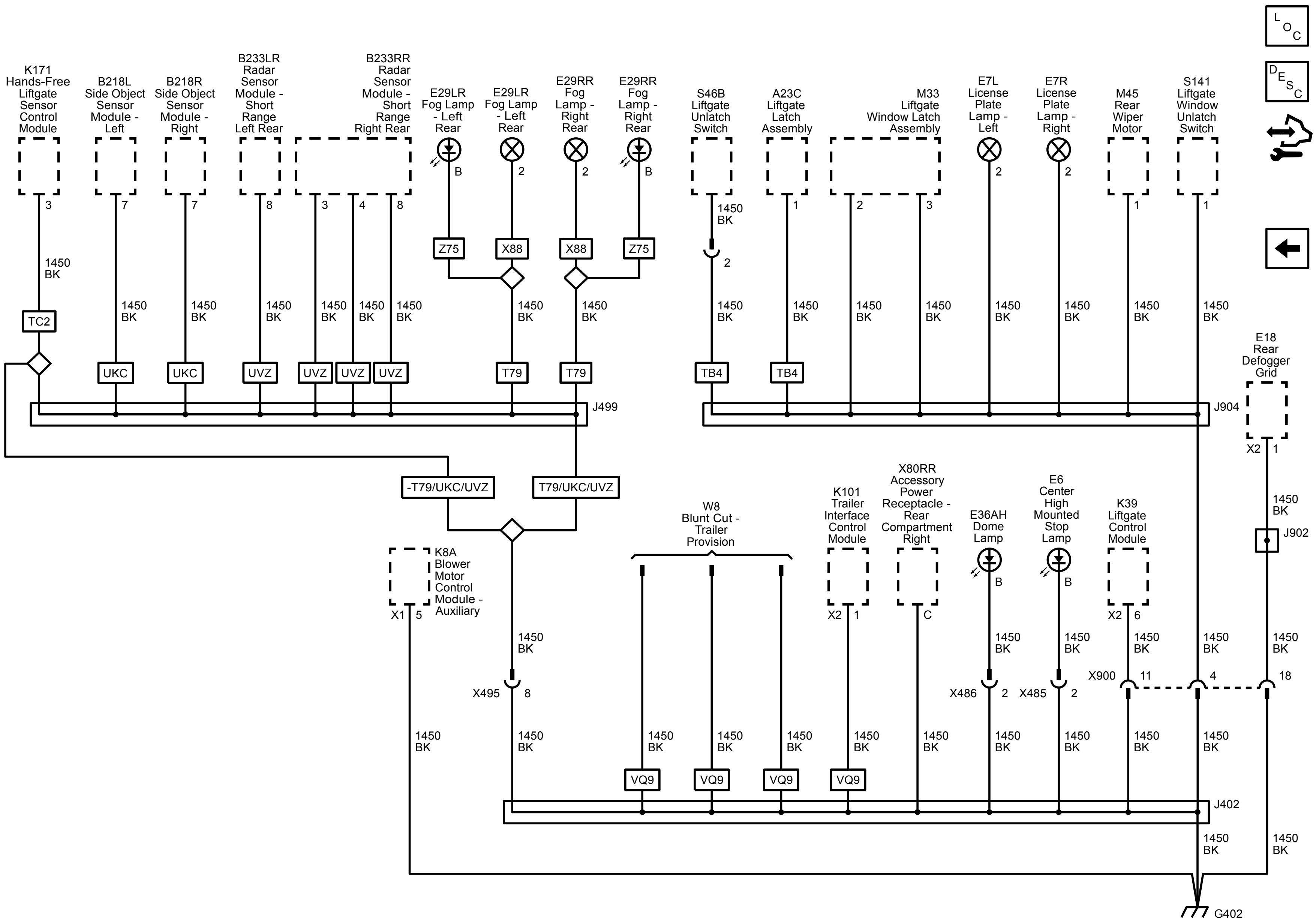
G100, G103, G125, G141 and G327


C1B
Battery - Auxiliary
C1
Battery
K43
Power Steering Control Module
K84
Keyless Entry Control Module
B119
Multi-axis Acceleration Sensor
K124
Active Safety Control Module
K41
Front and Rear Parking Assist Control Module
K36
Inflatable Restraint Sensing and Diagnostic Module
K85
Passenger Presence Module
X5 2
X1 14
6
X1 8
7
X1 19
4
350 BK
250 BK
450 BK
2751 BK
BTM
UGN
UGN
J330
BTM/UGN
-BTM/UGN
X183 2
X320 36
5W4/9C1
UD5/UD7
G100
G103
G141
G125
G327

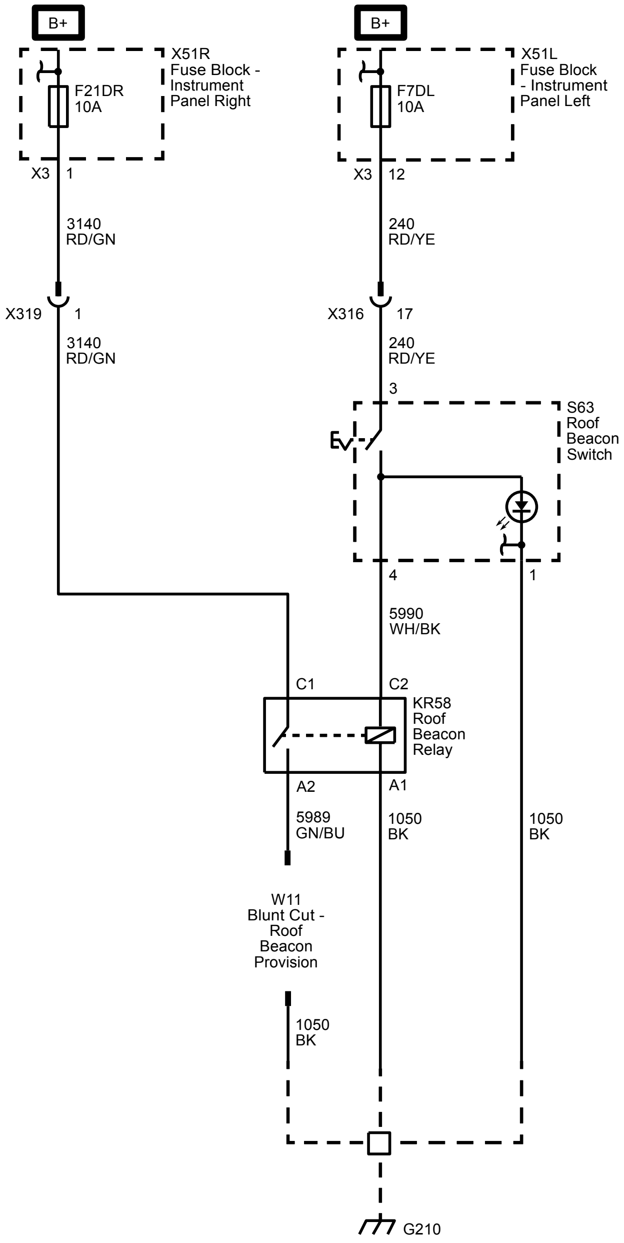
G400

LOC
DESC

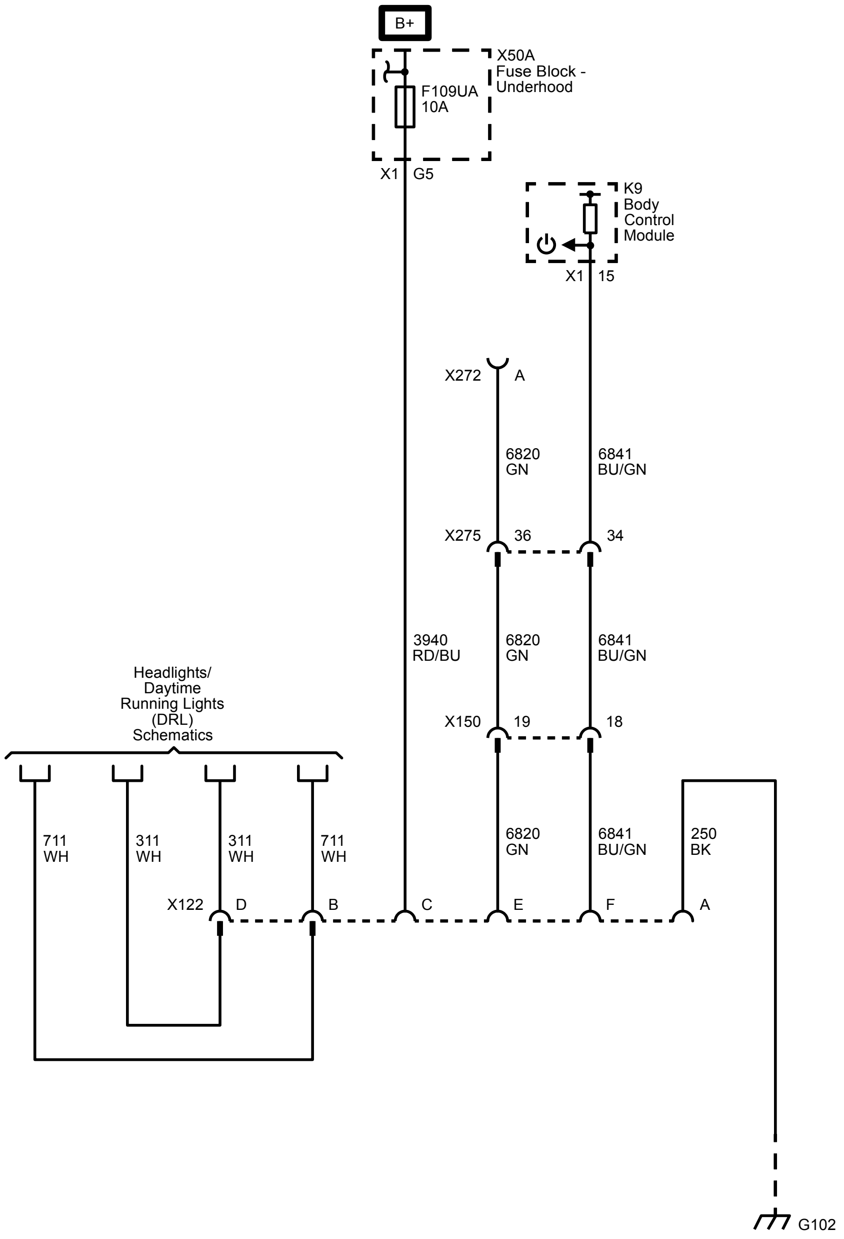

A90 Logic
BK
(T89)
E5L Stop Lamp - Left
(-T89)
E5AS Stop/Turn Signal Lamp - Left Upper
BK
(T89)
E4LR Turn Signal Lamp - Left Rear
(-T89)
E5AT Stop/Turn Signal Lamp - Left Lower
BK
K174L Multifunction LED Control Module - Left Tail Lamp
BK
E5E Tail Lamp - Left
BK
J410
X88
Z75/Z88
E42L Tail Lamp Assembly - Left
E8ZL Running Board Step Courtesy Lamp - Left
M95L Assist Step - Left
1750
BK
8
E8ZR Running Board Step Courtesy Lamp - Right
M95R Assist Step - Right
1750
BK
8
BK
X420
6
1750
BK
KR99 Air Suspension Relay
85
1750
BK
Z95
K38 Chassis Control Module
13
1750
BK
JL1/Z85
1750
BK
BRS
1750
BK
BRS
J451
1750
BK
-BRS/JL1/Z85/Z95
BRS/JL1/Z85/Z95
G3 Air Suspension Compressor
1750
BK
X400
G
1750
BK
Z85/Z95
K19 Suspension Control Module
47
1750
BK
Z95
K133 Trailer Brake Power Control Module
9
1750
BK
JL1
X88 Trailer Connector
B
22
WH
J450
1750
BK
G400

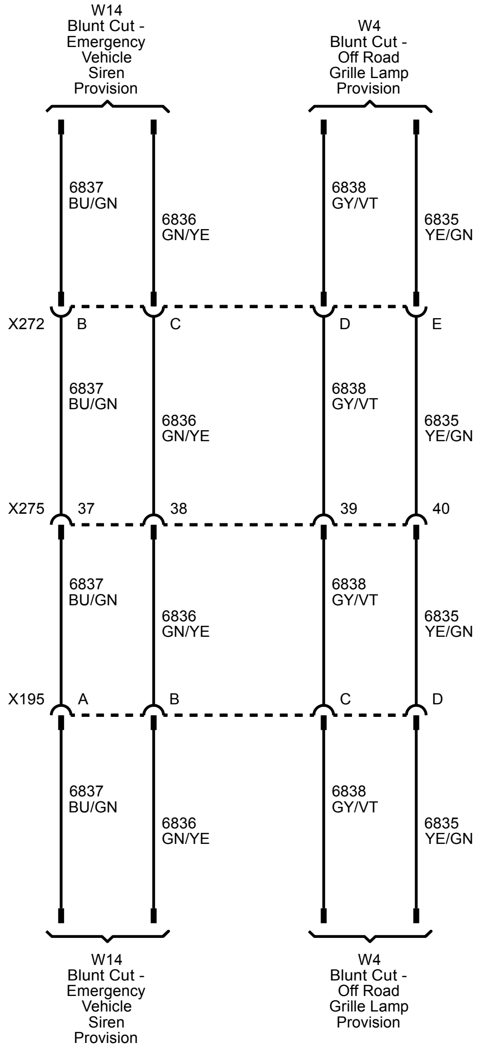

K171 Hands-Free Liftgate Sensor Control Module
B218L Side Object Sensor Module - Left
B218R Side Object Sensor Module - Right
B233LR Radar Sensor Module - Short Range Left Rear
B233RR Radar Sensor Module - Short Range Right Rear
E29LR Fog Lamp - Left Rear
E29LR Fog Lamp - Left Rear
E29RR Fog Lamp - Right Rear
E29RR Fog Lamp - Right Rear
S46B Liftgate Unlatch Switch
A23C Liftgate Latch Assembly
M33 Liftgate Window Latch Assembly
E7L License Plate Lamp - Left
E7R License Plate Lamp - Right
M45 Rear Wiper Motor
S141 Liftgate Window Unlatch Switch
3
7
7
8
3
4
8
B
2
2
B
2
1
2
3
2
2
1
1
1450 BK
Z75
X88
X88
Z75
TC2
UKC
UKC
UVZ
UVZ
UVZ
UVZ
T79
T79
TB4
TB4
J499
J904
E18 Rear Defogger Grid
X2
1
-T79/UKC/UVZ
T79/UKC/UVZ
J902
W8 Blunt Cut - Trailer Provision
K101 Trailer Interface Control Module
X80RR Accessory Power Receptacle - Rear Compartment Right
E36AH Dome Lamp
E6 Center High Mounted Stop Lamp
K39 Liftgate Control Module
K8A Blower Motor Control Module - Auxiliary
X1
5
X2
1
C
B
B
X2
6
X495
8
X486
2
X485
2
X900
11
4
18
VQ9
VQ9
VQ9
VQ9
J402
G402

Roof Beacon Provisions (TRW)

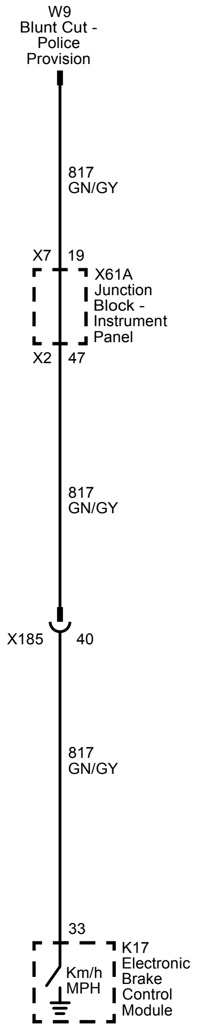

B+
X51R
Fuse Block -
Instrument
Panel Right
F21DR
10A
X3
1
3140
RD/GN
X319
1
3140
RD/GN
B+
X51L
Fuse Block
- Instrument
Panel Left
F7DL
10A
X3
12
240
RD/YE
X316
17
240
RD/YE
3
S63
Roof
Beacon
Switch
4
1
5990
WH/BK
C1
C2
KR58
Roof
Beacon
Relay
A2
A1
5989
GN/BU
1050
BK
1050
BK
W11
Blunt Cut -
Roof
Beacon
Provision
1050
BK
G210

Headlight Flasher Provisions (6J7)

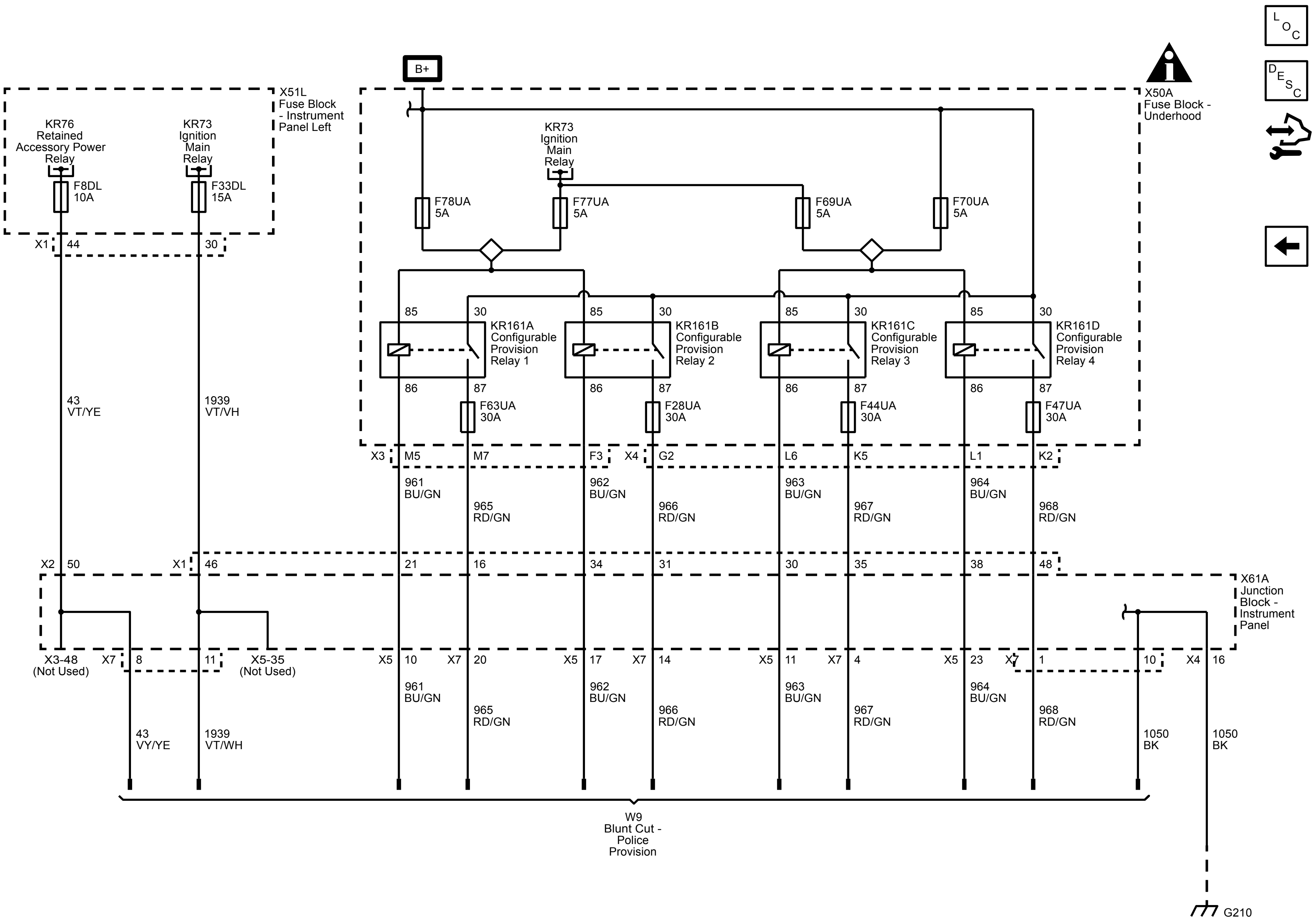

B+
X50A
Fuse Block -
Underhood
F109UA
10A
X1
G5
K9
Body
Control
Module
X1
15
X272
A
6820
GN
6841
BU/GN
X275
36
34
3940
RD/BU
6820
GN
6841
BU/GN
Headlights/
Daytime
Running Lights
(DRL)
Schematics
X150
19
18
711
WH
311
WH
311
WH
711
WH
6820
GN
6841
BU/GN
250
BK
X122
D
B
C
E
F
A
G102


W14
Blunt Cut - Emergency Vehicle Siren Provision
W4
Blunt Cut - Off Road Grille Lamp Provision
6837
BU/GN
6836
GN/YE
6838
GY/VT
6835
YE/GN
X272
B
C
D
E
6837
BU/GN
6836
GN/YE
6838
GY/VT
6835
YE/GN
X275
37
38
39
40
6837
BU/GN
6836
GN/YE
6838
GY/VT
6835
YE/GN
X195
A
B
C
D
6837
BU/GN
6836
GN/YE
6838
GY/VT
6835
YE/GN
W14
Blunt Cut - Emergency Vehicle Siren Provision
W4
Blunt Cut - Off Road Grille Lamp Provision

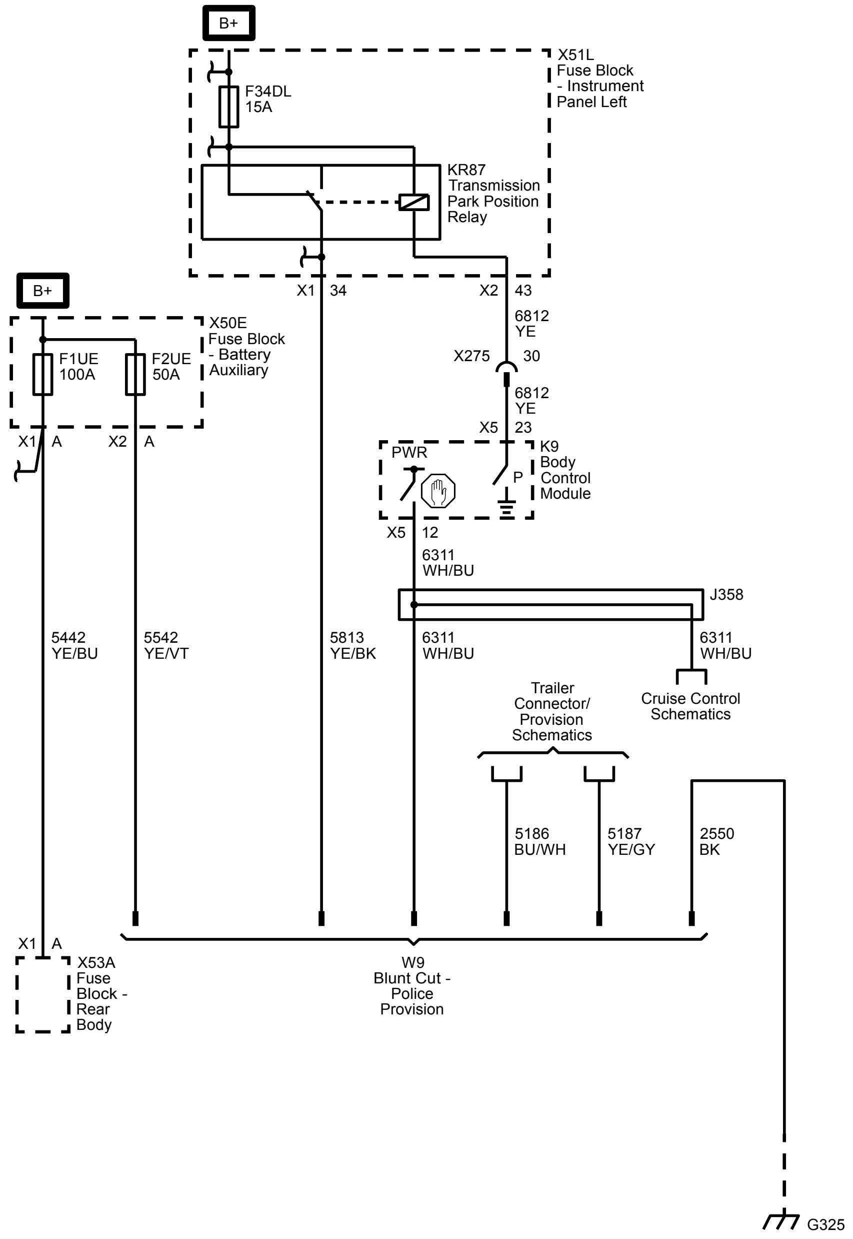
Center Instrument Panel - Marked "Circuit 817"


W9
Blunt Cut -
Police
Provision
817
GN/GY
X7
19
X61A
Junction
Block -
Instrument
Panel
X2
47
817
GN/GY
X185
40
817
GN/GY
33
K17
Electronic
Brake
Control
Module
Km/h
MPH

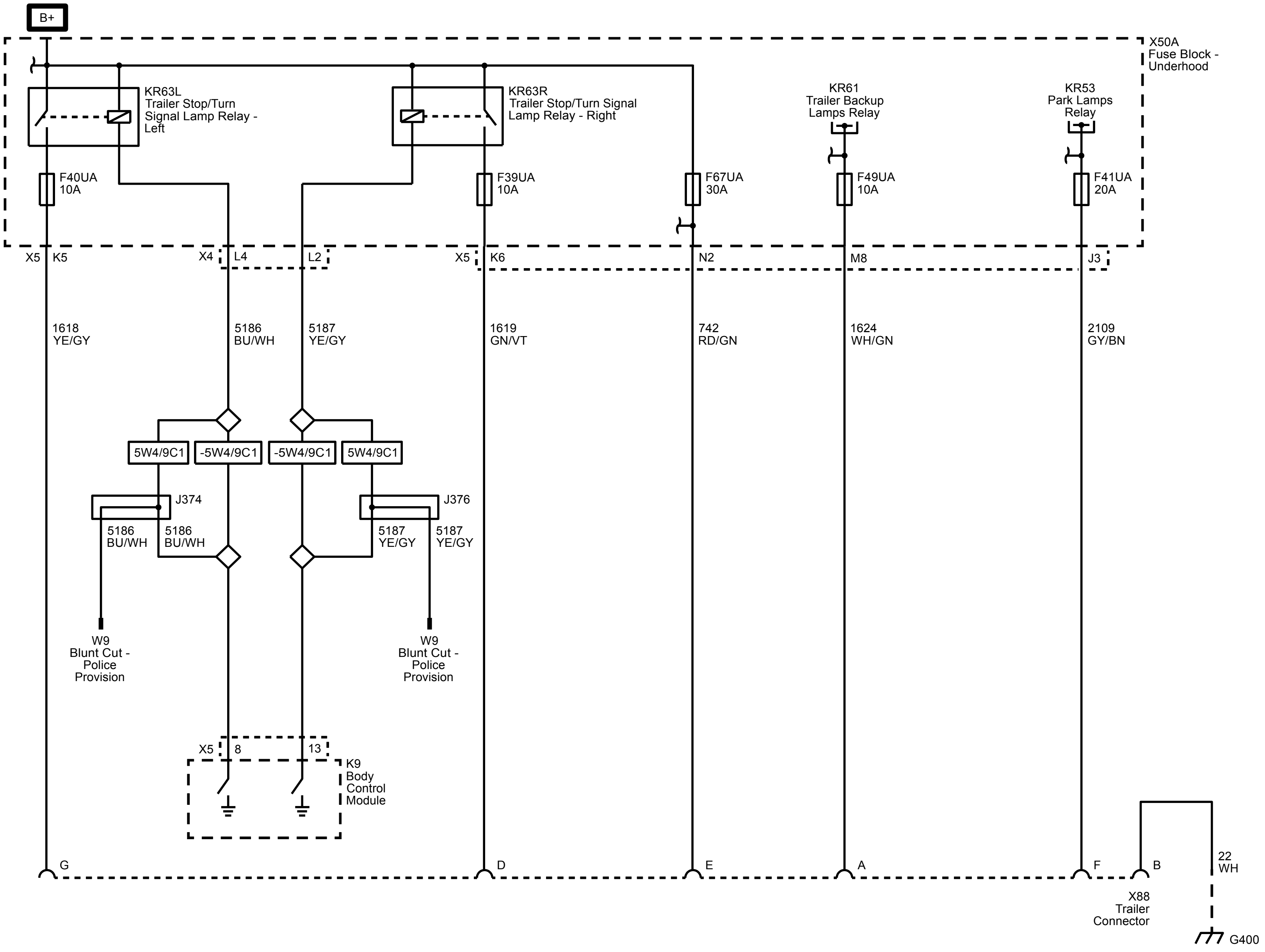
Center Instrument Panel - Marked "Circuit 5W4 /9C1"


B+
X51L
Fuse Block
- Instrument
Panel Left
KR76
Retained
Accessory Power
Relay
KR73
Ignition
Main
Relay
F8DL
10A
F33DL
15A
X1
44
30
43
VT/YE
1939
VT/VH
KR73
Ignition
Main
Relay
F78UA
5A
F77UA
5A
F69UA
5A
F70UA
5A
X50A
Fuse Block -
Underhood
85
30
KR161A
Configurable
Provision
Relay 1
86
87
F63UA
30A
KR161B
Configurable
Provision
Relay 2
F28UA
30A
KR161C
Configurable
Provision
Relay 3
F44UA
30A
KR161D
Configurable
Provision
Relay 4
F47UA
30A
X3
M5
M7
F3
X4
G2
L6
K5
L1
K2
961
BU/GN
965
RD/GN
962
BU/GN
966
RD/GN
963
BU/GN
967
RD/GN
964
BU/GN
968
RD/GN
X2
50
X1
46
21
16
34
31
30
35
38
48
X61A
Junction
Block -
Instrument
Panel
X3-48
(Not Used)
X7
8
11
X5-35
(Not Used)
X5
10
X7
20
X5
17
X7
14
X5
11
X7
4
X5
23
X7
1
10
X4
16
43
VY/YE
1939
VT/WH
1050
BK
1050
BK
W9
Blunt Cut -
Police
Provision
G210
LOC
DESC

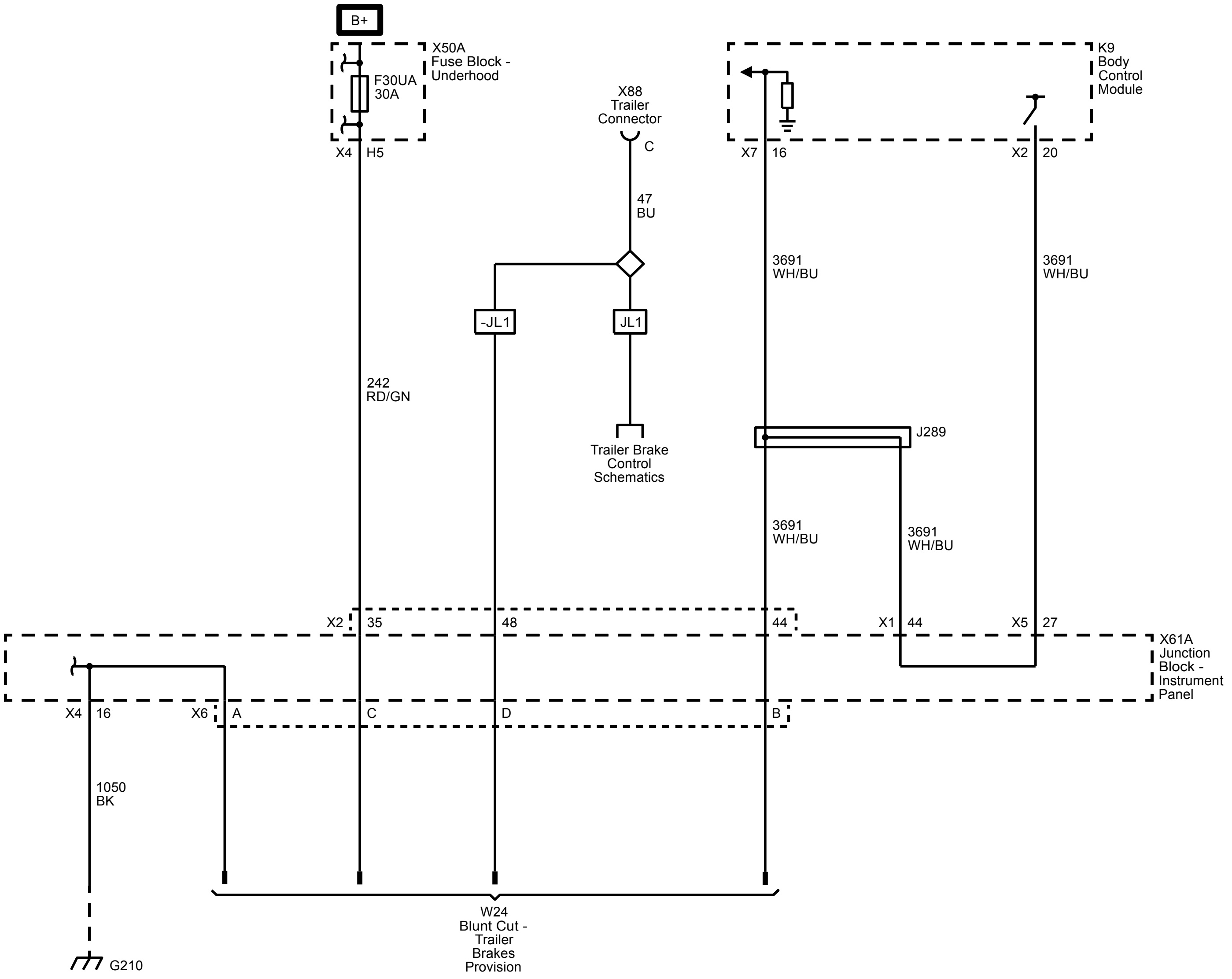
Passeenger Footwell and Rear Fuse Block (5W4 or 9C1)


B+
X51L
Fuse Block
- Instrument
Panel Left
F34DL
15A
KR87
Transmission
Park Position
Relay
X1 34
X2 43
6812
YE
X275 30
6812
YE
X5 23
B+
X50E
Fuse Block
- Battery
Auxiliary
F1UE
100A
F2UE
50A
X1 A
X2 A
PWR
P
K9
Body
Control
Module
X5 12
6311
WH/BU
J358
5442
YE/BU
5542
YE/VT
5813
YE/BK
6311
WH/BU
6311
WH/BU
Cruise Control
Schematics
Trailer
Connector/
Provision
Schematics
5186
BU/WH
5187
YE/GY
2550
BK
X1 A
X53A
Fuse
Block -
Rear
Body
W9
Blunt Cut -
Police
Provision
G325

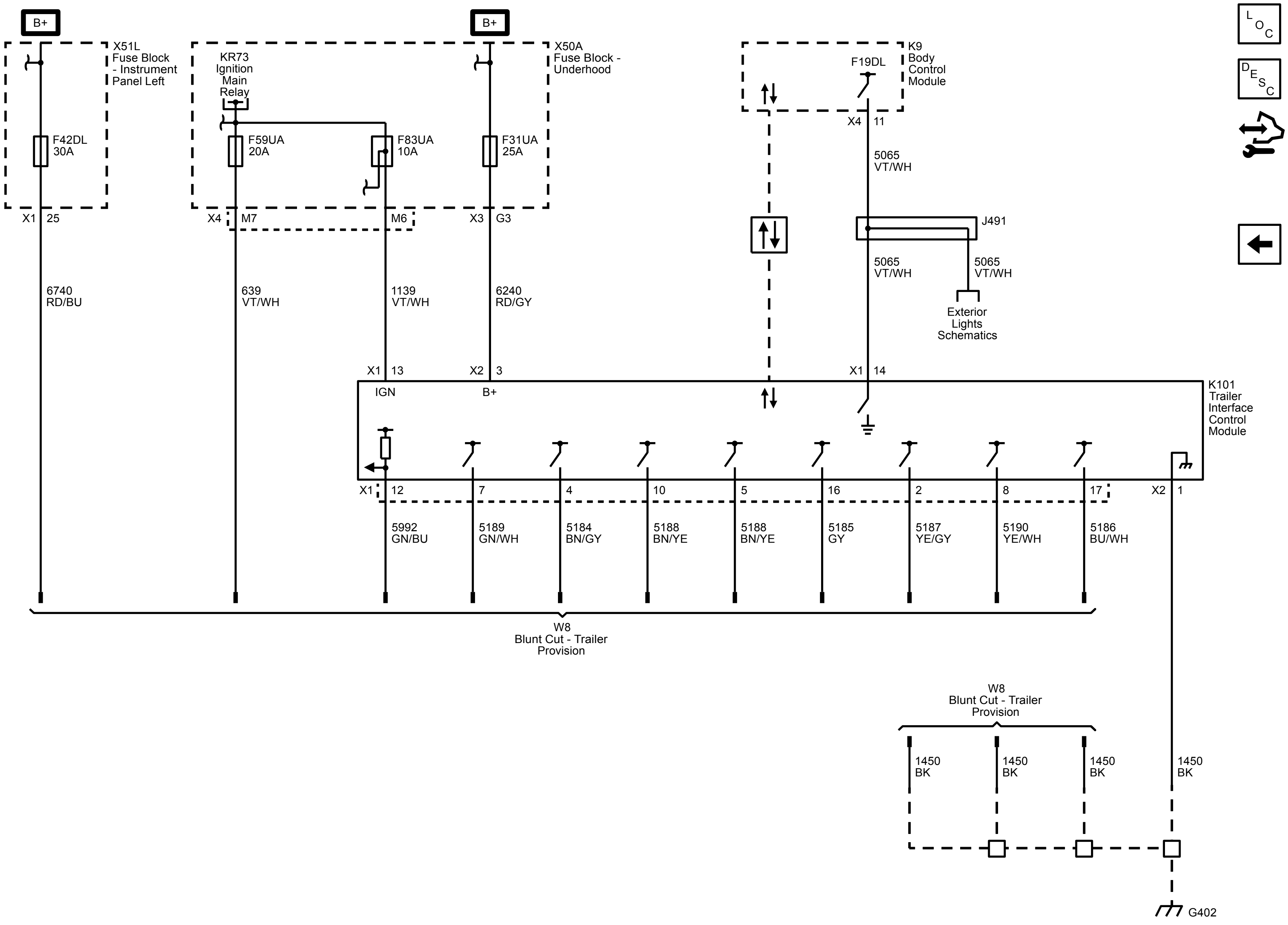
Trailer Connector Pins: A, B, D, E, F, G


B+
X50A
Fuse Block -
Underhood
KR63L
Trailer Stop/Turn
Signal Lamp Relay -
Left
KR63R
Trailer Stop/Turn Signal
Lamp Relay - Right
KR61
Trailer Backup
Lamps Relay
KR53
Park Lamps
Relay
F40UA
10A
F39UA
10A
F67UA
30A
F49UA
10A
F41UA
20A
X5
K5
X4
L4
L2
X5
K6
N2
M8
J3
1618
YE/GY
5186
BU/WH
5187
YE/GY
1619
GN/VT
742
RD/GN
1624
WH/GN
2109
GY/BN
5W4/9C1
-5W4/9C1
-5W4/9C1
5W4/9C1
J374
J376
5186
BU/WH
5186
BU/WH
5187
YE/GY
5187
YE/GY
W9
Blunt Cut -
Police
Provision
W9
Blunt Cut -
Police
Provision
X5
8
13
K9
Body
Control
Module
G
D
E
A
F
B
22
WH
X88
Trailer
Connector
G400

Trailer Connector Pin: C


B+
X50A Fuse Block - Underhood
F30UA 30A
X4 H5
242 RD/GN
X88 Trailer Connector
C
47 BU
-JL1
JL1
Trailer Brake Control Schematics
K9 Body Control Module
X7 16
X2 20
3691 WH/BU
3691 WH/BU
J289
3691 WH/BU
3691 WH/BU
X2 35
48
44
X1 44
X5 27
X61A Junction Block - Instrument Panel
X4 16
X6 A
C
D
B
1050 BK
G210
W24 Blunt Cut - Trailer Brakes Provision

Trailer Wiring - Export (VQ9)


B+
X51L
Fuse Block
- Instrument
Panel Left
F42DL
30A
X1 25
6740
RD/BU
KR73
Ignition
Main
Relay
F59UA
20A
F83UA
10A
X4 M7
M6
639
VT/WH
1139
VT/WH
B+
X50A
Fuse Block -
Underhood
F31UA
25A
X3 G3
6240
RD/GY
K9
Body
Control
Module
F19DL
X4 11
5065
VT/WH
J491
5065
VT/WH
5065
VT/WH
Exterior
Lights
Schematics
X1 13
X2 3
X1 14
IGN
B+
K101
Trailer
Interface
Control
Module
X1 12
7
4
10
5
16
2
8
17
X2 1
5992
GN/BU
5189
GN/WH
5184
BN/GY
5188
BN/YE
5188
BN/YE
5185
GY
5187
YE/GY
5190
YE/WH
5186
BU/WH
W8
Blunt Cut - Trailer
Provision
W8
Blunt Cut - Trailer
Provision
1450
BK
1450
BK
1450
BK
1450
BK
G402
L O C
D E S C

]

Master Electrical Component List

Code	Name	Option	Location	Locator View	Connector End View
A3L	Sunshade – Left	—	In the front of the passenger compartment, above the driver seat	—	—
A3R	Sunshade – Right	—	In the front of the passenger compartment, above the passenger seat	—	—
A7	Fuel Pump and Level Sensor Assembly	—	Under the vehicle in the fuel tank	—	*A7 Fuel Pump and Level Sensor Assembly*
A9A	Outside Rearview Mirror – Driver	—	Outside the vehicle, at the front of the driver door	• *Front of Vehicle Components (X88)* • *Front of Vehicle Components (Z75)*	—
A9B	Outside Rearview Mirror – Passenger	—	Outside the vehicle, at the front of the passenger door	• *Front of Vehicle Components (X88)* • *Front of Vehicle Components (Z75)*	—
A10	Inside Rearview Mirror	—	In the passenger compartment, at the top center of the windshield	*Overhead Console Components*	*A10 Inside Rearview Mirror*
A11	Radio	—	In the passenger compartment, center of the instrument panel, behind the HVAC controls	—	• *A11 Radio X1* • *A11 Radio X2* • *A11 Radio X3* • *A11 Radio X4* • *A11 Radio X6 (U2M)* • *A11 Radio X7 (IO3)*
A16	Transfer Case Motor	NP0 or NQH	On the underbody, mounted to the bottom rear of the transfer case	*Transfer Case Components (NP0 or NQH)*	*A16 Transfer Case Motor*
A20	Radio/HVAC Controls	Z75	In the passenger compartment, at the center of the instrument panel, part of the info display module	*Front of Instrument Panel Components (Z75)*	—
A22	Radio Controls	X88 or Z88	In the passenger compartment, at the center of the instrument panel, part of the info display module	• *Front of Instrument Panel Components (X88/Z88 with D07)* • *Front of Instrument Panel Components (X88/Z88 without D07)*	—
A23C	Liftgate Latch Assembly	—	In the passenger compartment, at the bottom middle of the liftgate	*Liftgate Components*	• *A23C Liftgate Latch Assembly (except TB5)* • *A23C Liftgate Latch Assembly (TB5)*
A23D	Door Latch Assembly – Driver	—	In the passenger compartment, at the middle rear of the driver door	*Driver Door Components*	*A23D Door Latch Assembly - Driver*
A23LR	Door Latch Assembly – Left Rear	—	In the passenger compartment, at the middle rear of the left rear door	*Left Rear Door Components*	*A23LR Door Latch Assembly - Left Rear*
A23P	Door Latch Assembly – Passenger	—	In the passenger compartment, at the middle rear of the passenger door	*Passenger Door Components*	*A23P Door Latch Assembly - Passenger*

A23RR	Door Latch Assembly – Right Rear	—	In the passenger compartment, at the middle rear of the right rear door	Right Rear Door Components	A23RR Door Latch Assembly - Right Rear
A24D	Door Handle Assembly – Driver Exterior	—	Outside the vehicle, at the rear of the driver door	Driver Door Components	• A24D Door Handle Assembly - Driver Exterior (X88 or Z88, with ATH) • A24D Door Handle Assembly - Driver Exterior (Z75)
A24LR	Door Handle Assembly – Left Rear Exterior	—	Outside the vehicle, at the rear of the left rear door	Left Rear Door Components	• A24LR Door Handle Assembly - Left Rear Exterior (X88 or Z88, with ATH) • A24LR Door Handle Assembly - Left Rear Exterior (Z75)
A24P	Door Handle Assembly – Passenger Exterior	—	Outside the vehicle, at the rear of the passenger door	Passenger Door Components	• A24P Door Handle Assembly - Passenger Exterior (X88 or Z88, with ATH) • A24P Door Handle Assembly - Passenger Exterior (Z75)
A24RR	Door Handle Assembly – Right Rear Exterior	—	Outside the vehicle, at the rear of the right rear door	Right Rear Door Components	• A24RR Door Handle Assembly - Right Rear Exterior (X88 or Z88, with ATH) • A24RR Door Handle Assembly - Right Rear Exterior (Z75)
A26	HVAC Controls	X88 or Z88	In the passenger compartment, at the center of the instrument panel, part of the info display module	• Front of Instrument Panel Components (X88/Z88 with D07) • Front of Instrument Panel Components (X88/Z88 without D07)	—
A33	Media Disc Player	TG5 or U42	In the passenger compartment, lower center of the instrument panel, behind the radio controls	• Front of Instrument Panel Components (X88/Z88 with D07) • Front of Instrument Panel Components (X88/Z88 without D07) • Front of Instrument Panel Components (Z75)	• A33 Media Disc Player X1 (TG5) • A33 Media Disc Player X1 (U42) • A33 Media Disc Player X2 (U42) • A33 Media Disc Player X3 (U42) • A33 Media Disc Player X4 (U42) • A33 Media Disc Player X5
A34	HVAC Controls – Auxiliary	D07	In the passenger compartment, forward of center, between the driver and passenger seat, at the back of the floor console	• Center Console Rear Component Views (X88/Z88) • Center Console Rear Component Views (Z75)	A34 HVAC Controls - Auxiliary
A34	HVAC Controls – Auxiliary	AZ3	In the passenger compartment, overhead, forward of center, behind the front bench seat	Headliner Components	A34 HVAC Controls - Auxiliary
B1	A/C Refrigerant Pressure Sensor	—	In the front of the engine compartment, on the right side of the A/C compressor	—	B1 A/C Refrigerant Pressure Sensor
B5LF	Wheel Speed Sensor – Left Front	—	Outside the vehicle, in the left front hub assembly	Chassis Components View	B5LF Wheel Speed Sensor - Left Front
B5LR	Wheel Speed Sensor – Left Rear	—	Outside the vehicle, in the left rear, along axle at brake rotor	Chassis Components View	B5LR Wheel Speed Sensor - Left Rear
B5RF	Wheel Speed Sensor – Right Front	—	Outside the vehicle, in the right front hub assembly	Chassis Components View	B5RF Wheel Speed Sensor - Right Front

B5RR	Wheel Speed Sensor – Right Rear	—	Outside the vehicle, in the right rear, along axle at brake rotor	*Chassis Components View*	*B5RR Wheel Speed Sensor - Right Rear*
B7C	Air Temperature Sensor – Duct Lower Auxiliary	—	In the passenger compartment, in the floor vent of the rear HVAC	—	—
B7D	Air Temperature Sensor – Duct Left Lower	—	In the passenger compartment, behind the instrument panel, on the left side of the HVAC module	—	—
B7E	Air Temperature Sensor – Duct Right Lower	—	In the passenger compartment, behind the instrument panel, on the right side of the HVAC module	—	—
B7G	Air Temperature Sensor – Duct Upper Auxiliary	—	In the passenger compartment, in the roof vent of the rear HVAC	—	—
B7H	Air Temperature Sensor – Duct Left Upper	—	In the passenger compartment, behind the instrument panel, on the upper left side of the HVAC module	—	—
B7J	Air Temperature Sensor – Duct Right Upper	—	In the passenger compartment, behind the instrument panel, on the upper right side of the HVAC module	—	—
B9	Ambient Air Temperature Sensor	—	Left front of the vehicle, left of the hood latch assembly	• *Front of Vehicle Components (X88)* • *Front of Vehicle Components (Z75)*	*B9 Ambient Air Temperature Sensor*
B10B	Ambient Light/Sunload Sensor	—	In the passenger compartment, at the top center of the instrument panel, in the defroster deflector	• *Front of Instrument Panel Components (X88/Z88 with D07)* • *Front of Instrument Panel Components (X88/Z88 without D07)* • *Front of Instrument Panel Components (Z75)*	*B10B Ambient Light/Sunload Sensor*
B12A	Transmission Fluid Pressure Switch	MYC	Under the vehicle, internal to the transmission assembly	—	—
B13	Transmission Fluid Temperature Sensor	—	Under the vehicle, internal to the transmission assembly	—	—
B14A	Transmission Output Shaft Speed Sensor	—	Under the vehicle, internal to the transmission assembly	—	—
B14A	Transmission Output Shaft Speed Sensor	NP0 or NQH	Under the vehicle, center, forward of middle, on top of transfer case	*Transfer Case Components (NP0 or NQH)*	*B14A Transmission Output Shaft Speed Sensor (NP0 or NQH)*
B14C	Transmission Input Shaft Speed Sensor	—	Under the vehicle, internal to the transmission assembly	—	—
B14D	Transmission Input Shaft Speed Sensor	M5U	Under the vehicle, internal to the transmission assembly	—	—
B15	Transmission Internal Mode Switch	—	Under the vehicle, internal to the transmission assembly	—	—
B18	Battery Current Sensor	—	In the engine compartment, right rear, near the battery, on the negative battery cable	*Right Rear of Engine Compartment Components (1 of 2)*	*B18 Battery Current Sensor*
B19B	Brake Booster Vacuum Sensor	—	At the rear of the engine compartment, left of the brake fluid reservoir, on brake booster valve	*Left Side of Engine Compartment Component View*	*B19B Brake Booster Vacuum Sensor*

B20	Brake Fluid Level Switch	—	At the rear of the engine compartment, on the brake fluid reservoir	*Left Side of Engine Compartment Component View*	*B20 Brake Fluid Level Switch*
B22	Brake Pedal Position Sensor	—	In the passenger compartment, behind the brake pedal assembly	*Behind Left Side of Instrument Panel Components (1 of 2)*	*B22 Brake Pedal Position Sensor*
B23	Camshaft Position Sensor	—	In the engine compartment, at the front of the engine, left side of timing chain cover.	*Front of Engine Components*	*B23 Camshaft Position Sensor*
B24	Cellular Phone Microphone	—	In the passenger compartment, at the front center of the headliner, near the left sunshade	*Headliner Components*	*B24 Cellular Phone Microphone*
B26	Crankshaft Position Sensor	—	In the engine compartment, lower right rear of engine block	—	*B26 Crankshaft Position Sensor*
B27D	Door Handle Switch – Driver Exterior	—	Outside the vehicle, at the rear of the driver door, part of the door handle assembly	—	—
B27LR	Door Handle Switch – Left Rear Exterior	—	Outside the vehicle, at the rear of the left rear door, part of the door handle assembly	—	—
B27P	Door Handle Switch – Passenger Exterior	—	Outside the vehicle, at the rear of the passenger door, part of the door handle assembly	—	—
B27RR	Door Handle Switch – Right Rear Exterior	—	Outside the vehicle, at the rear of the right rear door, part of the door handle assembly	—	—
B34	Engine Coolant Temperature Sensor	—	In the engine compartment, top of the engine, left of the air intake, in the water outlet housing	*Left Side of Engine Components (L83 or L86)*	*B34 Engine Coolant Temperature Sensor*
B35	Engine Oil Level Switch	—	In the engine compartment, bottom left of the engine oil pan	—	*B35 Engine Oil Level Switch*
B37B	Engine Oil Pressure Sensor	—	In the engine compartment, top rear of the engine	*Left Side of Engine Components (L83 or L86)*	*B37B Engine Oil Pressure Sensor*
B39	A/C Evaporator Temperature Sensor	—	In the passenger compartment, part of HVAC module, behind the instrument panel	—	—
B46	Fuel Level Sensor	—	Under the vehicle, inside the fuel tank, part of A6 fuel pump and level sensor	—	—
B47B	Fuel Rail Pressure Sensor	—	In the engine compartment, mounted to the high pressure side of the fuel rail	—	*B47B Fuel Rail Pressure Sensor*
B47	Fuel Pressure Sensor	—	On the vehicle underbody, on the fuel line, near the transmission crossmember mount	—	*B47 Fuel Pressure Sensor*
B52C	Heated Oxygen Sensor – Bank 1 Sensor 1	—	On the vehicle underbody, near the top left side of the transmission	—	*B52C Heated Oxygen Sensor - Bank 1 Sensor 1*
B52D	Heated Oxygen Sensor – Bank 1 Sensor 2	—	On the vehicle underbody, near the left frame rail downstream from the catalytic converter	—	*B52D Heated Oxygen Sensor - Bank 1 Sensor 2*
B52E	Heated Oxygen Sensor – Bank 2 Sensor 1	—	On the vehicle underbody, near the right frame rail even with the catalytic converter	—	*B52E Heated Oxygen Sensor - Bank 2 Sensor 1*
B52F	Heated Oxygen Sensor – Bank 2 Sensor 2	—	On the vehicle underbody, near the right frame rail downstream from the catalytic converter	—	*B52F Heated Oxygen Sensor - Bank 2 Sensor 2*
B55	Hood Ajar Switch	—	In the front of the engine compartment, on the hood latch	*Behind Front Fascia Components (X88/Z88)*	*B55 Hood Ajar Switch*

B59L	Front Impact Sensor – Left	—	At the front of the vehicle, behind the front fascia, left of center, behind the bumper beam	*Behind Front Fascia Components (X88/Z88)*	*B59L Front Impact Sensor - Left*
B59R	Front Impact Sensor – Right	—	At the front of the vehicle, behind the front fascia, right of center, behind the bumper beam	*Behind Front Fascia Components (X88/Z88)*	*B59R Front Impact Sensor - Right*
B61P	Seat Belt Tension Sensor – Passenger	—	In the passenger compartment, at the base of the B-Pillar, part of the seat belt retractor assembly	—	*B61P Seat Belt Tension Sensor - Passenger*
B62D	Seat Position Sensor – Driver	—	In the passenger compartment, right front corner of the driver seat track assembly	—	*B62D Seat Position Sensor - Driver*
B62P	Seat Position Sensor – Passenger	—	In the passenger compartment, left front corner of the passenger seat track assembly	—	*B62P Seat Position Sensor - Passenger*
B63LF	Side Impact Sensor – Left Front	—	In the driver door, behind the trim panel, toward the rear of the door	*Driver Door Components*	*B63LF Side Impact Sensor - Left Front*
B63LR	Side Impact Sensor – Left Rear	—	In the left rear door, behind the trim panel, toward the rear of the door	*Left Rear of Passenger Compartment Views (Z75)*	*B63LR Side Impact Sensor - Left Rear*
B63RF	Side Impact Sensor – Right Front	—	In the passenger door, behind the trim panel, toward the rear of the door	*Passenger Door Components*	*B63RF Side Impact Sensor - Right Front*
B63RR	Side Impact Sensor – Right Rear	—	In the right rear door, behind the trim panel, toward the rear of the door	—	*B63RR Side Impact Sensor - Right Rear*
B67A	Ultrasonic Intrusion Sensor 1	UTT	In the passenger compartment, at the front of the roof, in the overhead console	—	—
B67B	Ultrasonic Intrusion Sensor 2	UTT	In the passenger compartment, at the front of the roof, in the overhead console	—	—
B67C	Ultrasonic Intrusion Sensor 3	UTT	In the passenger compartment, at the front of the roof, in the overhead console	—	—
B68A	Knock Sensor 1	—	In the engine compartment, on the rear of the engine, below the cylinder head	*Left Side of Engine Components (L83 or L86)*	*B68A Knock Sensor 1*
B68B	Knock Sensor 2	—	In the engine compartment, on the rear of the engine, below the cylinder head	—	*B68B Knock Sensor 2*
B70	Liftgate Close Switch	TB5	In the passenger compartment, at the bottom of the liftgate	*Liftgate Components*	*B70 Liftgate Close Switch (TB5)*
B71L	Liftgate Object Sensor – Left	TB5	At the rear of the vehicle, along the left edge of the liftgate	*Liftgate Components*	*B71L Liftgate Object Sensor - Left (TB5)*
B71R	Liftgate Object Sensor – Right	TB5	At the rear of the vehicle, along the right edge of the liftgate	*Liftgate Components*	*B71R Liftgate Object Sensor - Right (TB5)*
B74	Manifold Absolute Pressure Sensor	—	In the engine compartment, on the top of the intake manifold, left of the throttle body	*Left Side of Engine Components (L83 or L86)*	*B74 Manifold Absolute Pressure Sensor*
B75C	Multifunction Intake Air Sensor	—	Right side of the engine compartment, in the air intake duct, near the air cleaner	—	*B75C Multifunction Intake Air Sensor*
B77LF	Radio Volume Compensator Interior Noise Microphone – Left Front	NKC	In the passenger compartment, on the left side of the headliner, at the over head grab handle	*Headliner Components*	*B77LF Radio Volume Compensator Interior Noise Microphone - Left Front (NKC)*
B77R	Radio Volume Compensator Interior Noise Microphone – Rear	NKC	In the passenger compartment, at the rear of the headliner	*Headliner Components*	*B77R Radio Volume Compensator Interior Noise Microphone - Rear (NKC)*

B77RF	Radio Volume Compensator Interior Noise Microphone – Right Front	NKC	In the passenger compartment, on the right side of the headliner, at the over head grab handle	*Headliner Components*	*B77RF Radio Volume Compensator Interior Noise Microphone - Right Front (NKC)*
B78A	Front Object Sensor – Left Outer	UD5	At the front of the vehicle, mounted in the front bumper	- *Front of Vehicle Components (X88)* - *Front of Vehicle Components (Z75)*	*B78A Front Object Sensor - Left Outer (UD5)*
B78B	Front Object Sensor – Right Outer	UD5	At the front of the vehicle, mounted in the front bumper	- *Front of Vehicle Components (X88)* - *Front of Vehicle Components (Z75)*	*B78B Front Object Sensor - Right Outer (UD5)*
B78C	Front Object Sensor – Left Middle	UD5	At the front of the vehicle, mounted in the front bumper	- *Front of Vehicle Components (X88)* - *Front of Vehicle Components (Z75)*	*B78C Front Object Sensor - Left Middle (UD5)*
B78D	Front Object Sensor – Right Middle	UD5	At the front of the vehicle, mounted in the front bumper	- *Front of Vehicle Components (X88)* - *Front of Vehicle Components (Z75)*	*B78D Front Object Sensor - Right Middle (UD5)*
B78E	Rear Object Sensor – Left Middle	UD5 or UD7	At the rear of the vehicle, mounted in the rear bumper	- *Rear of Vehicle Components (X88)* - *Rear of Vehicle Components (Z88)* - *Rear of Vehicle Components (Z75)*	*B78E Rear Object Sensor - Left Middle (UD5 or UD7)*
B78F	Rear Object Sensor – Right Middle	UD5 or UD7	At the rear of the vehicle, mounted in the rear bumper	- *Rear of Vehicle Components (X88)* - *Rear of Vehicle Components (Z88)* - *Rear of Vehicle Components (Z75)*	*B78F Rear Object Sensor - Right Middle (UD5 or UD7)*
B78G	Rear Object Sensor – Left Outer	UD5 or UD7	At the rear of the vehicle, mounted in the rear bumper	- *Rear of Vehicle Components (X88)* - *Rear of Vehicle Components (Z88)* - *Rear of Vehicle Components (Z75)*	*B78G Rear Object Sensor - Left Outer (UD5 or UD7)*
B78H	Rear Object Sensor – Right Outer	UD5 or UD7	At the rear of the vehicle, mounted in the rear bumper	- *Rear of Vehicle Components (X88)* - *Rear of Vehicle Components (Z88)* - *Rear of Vehicle Components (Z75)*	*B78H Rear Object Sensor - Right Outer (UD5 or UD7)*
B80	Park Brake Switch	—	In the passenger compartment, at the left side of the Driver Footwell	*Left Front of Passenger Compartment Views (Z75)*	*B80 Park Brake Switch*
B81B	Park Position Switch	—	In the passenger compartment, on the steering column near the base of the shifter	*Steering Column Components (2 of 2)*	*B81B Park Position Switch*
B87	Rearview Camera	UVC or UVH	In the lower center of the tailgate handle assembly	- *Rear of Vehicle Components (X88)* - *Rear of Vehicle Components (Z88)* - *Rear of Vehicle Components (Z75)*	*B87 Rearview Camera (UVC or UVH)*
B88D	Seat Belt Switch – Driver	—	In the passenger compartment, part of the driver seat belt buckle	*Left Front of Driver Seat Component Views*	*B88D Seat Belt Switch - Driver*
B88LR	Seat Belt Switch – Left Rear	ATN or ATT	In the passenger compartment, part of the second row seat left seat belt buckle	—	*B88LR Seat Belt Switch - Left Rear (ATN or ATT)*
B88P	Seat Belt Switch – Passenger	—	In the passenger compartment, part of the passenger front seat belt buckle	—	*B88P Seat Belt Switch - Passenger*

B88RR	Seat Belt Switch – Right Rear	ATN or ATT	In the passenger compartment, part of the second row seat right seat belt buckle	—	*B88RR Seat Belt Switch - Right Rear (ATN or ATT)*
B99	Steering Wheel Angle Sensor	—	In the passenger compartment, near the base of the steering column, near the floor	—	*B99 Steering Wheel Angle Sensor*
B107	Accelerator Pedal Position Sensor	—	In the passenger compartment, on the driver floor board above the accelerator pedal	*Behind Left Side of Instrument Panel Components (1 of 2)*	*B107 Accelerator Pedal Position Sensor*
B118B	Windshield Washer Fluid Level Switch	—	In the engine compartment, left front, on the bottom of the washer reservoir bottle	*Left Front Corner of Vehicle Components*	*B118B Windshield Washer Fluid Level Switch*
B119	Multi-axis Acceleration Sensor	UGN	In the passenger compartment, on the steering column	*Front Center of The Passenger Compartment Components*	*B119 Multi-axis Acceleration Sensor (UGN)*
B137B	Power Steering Shaft Torque/Position Sensor	—	Under the vehicle, near the steering gear assembly	—	*B137B Power Steering Shaft Torque/Position Sensor*
B150	Fuel Tank Pressure Sensor	—	Under the vehicle, at the rear, mounted to the EVAP cannister	*Chassis Components View*	*B150 Fuel Tank Pressure Sensor*
B152LF	Suspension Position Sensor — Left Front	Z95	Outside the vehicle, at the left front corner, rear side of the strut tower	—	*B152LF Suspension Position Sensor - Left Front (Z95)*
B152LR	Suspension Position Sensor — Left Rear	Z95	Outside the vehicle, at the left rear corner, above the upper control arm mount to the frame rail	*Wheels/Vehicle Underbody Component Views*	*B152LR Suspension Position Sensor - Left Rear (Z85 or Z95)*
B152RF	Suspension Position Sensor — Right Front	Z95	Outside the vehicle, at the right front corner, rear side of the strut tower	—	*B152RF Suspension Position Sensor - Right Front (Z95)*
B152RR	Suspension Position Sensor — Right Rear	Z95	Outside the vehicle, at the right rear corner, above the upper control arm mount to the frame rail	*Wheels/Vehicle Underbody Component Views*	*B152RR Suspension Position Sensor - Right Rear (Z85 or Z95)*
B153D	Seat Belt Buckle – Driver	—	In the passenger compartment, at the inboard of the driver seat	—	*B153D Seat belt Buckle - Driver*
B153LR	Seat Belt Buckle – Left Rear	—	In the passenger compartment, at the inboard of the left rear seat	—	*B153LR Seat Belt Buckle - Left Rear (ATN or ATT)*
B153P	Seat Belt Buckle – Passenger	—	In the passenger compartment, at the inboard of the passenger seat	—	*B153P Seat Belt Buckle - Passenger*
B153RR	Seat Belt Buckle – Right Rear	—	In the passenger compartment, at the inboard of the right rear seat	—	*B153RR Seat Belt Buckle - Right Rear (ATN or ATT)*
B155	Adjustable Pedal Position Sensor	—	In the passenger compartment, at the front, part of the pedal assembly	—	—
B159L	Glass Breakage Sensor — Left	UTT	In the passenger compartment, at the top middle of the windshield	*Left Rear Cargo Area Components*	*B159L Glass Breakage Sensor - Left (UTT)*
B159R	Glass Breakage Sensor — Right	UTT	In the passenger compartment, at the top middle of the windshield	*Right Rear Cargo Area Components*	*B159R Glass Breakage Sensor - Right (UTT)*
B165	Content Theft Deterrent Sensor Module	UTT	In the passenger compartment, at the front of the roof, in the overhead console	—	*B165 Content Theft Deterrent Sensor Module (UTT)*
B174	Frontview Camera	UFL or UGN	In the passenger compartment, at the top middle of the windshield	*Overhead Console Components*	• *B174 Frontview Camera (UFL)* • *B174 Frontview Camera (UGN with Z75)*
B174	Frontview Camera	UVH	At the front of the vehicle, center, in the upper grille	—	*B174 Frontview Camera (UVH)*

B196	Air Suspension Pressure Sensor	Z85 or Z95	under the vehicle, at the rear, near the K111 module, part of the air suspension compressor	—	—
B198	Fuel Composition Sensor	—	Under the vehicle, between the fuel tank and the electronic brake control module	—	*B198 Fuel Composition Sensor*
B200	Rain Sensor Module	—	In the passenger compartment, at the top middle of the windshield	—	*B200 Rain Sensor Module*
B218L	Side Object Sensor Module – Left	UKC	At the left rear corner of the vehicle, behind the fascia	*Behind Rear Fascia Components*	*B218L Side Object Sensor Module - Left (UKC)*
B218R	Side Object Sensor Module – Right	UKC	At the right rear corner of the vehicle, behind the fascia	*Behind Rear Fascia Components*	*B218R Side Object Sensor Module - Right (UKC)*
B225L	Sideview Camera – Left	UVH	Outside the vehicle, in the left outside rearview mirror	—	*B225L Sideview Camera - Left (UVH)*
B225R	Sideview Camera – Right	UVH	Outside the vehicle, in the right outside rearview mirror	—	*B225R Sideview Camera - Right (UVH)*
B227	Gear Position Sensor	NP0 or NQH	Under the vehicle, on the top rear of the transfer case	*Transfer Case Components (NP0 or NQH)*	*B227 Gear Position Sensor (NP0 or NQH)*
B233B	Radar Sensor Module – Long Range	UVZ without AVF	At the front of the vehicle, mounted in the center of the upper grille	*Front of Vehicle Components (Z75)*	*B233B Radar Sensor Module - Long Range (UVZ or UGN with Z75)*
B233B	Radar Sensor Module – Long Range	UVZ with AVF	At the front of the vehicle, behind the front fascia, center, mounted to the bottom of the front bumper	—	*B233B Radar Sensor Module - Long Range (UVZ or UGN with Z75)*
B233LF	Radar Sensor Module – Short Range Left Front	UVZ	At the front of the vehicle, mounted in the front bumper	—	*B233LF Radar Sensor Module - Short Range Left Front (UVZ)*
B233LR	Radar Sensor Module – Short Range Left Rear	UVZ	At the rear of the vehicle, mounted in the rear bumper	*Behind Rear Fascia Components*	*B233LR Radar Sensor Module - Short Range Left Rear (UVZ)*
B233RF	Radar Sensor Module – Short Range Right Front	UVZ	At the front of the vehicle, mounted in the front bumper	—	*B233RF Radar Sensor Module - Short Range Right Front (UVZ)*
B233RR	Radar Sensor Module – Short Range Right Rear	UVZ	At the rear of the vehicle, mounted in the rear bumper	*Behind Rear Fascia Components*	*B233RR Radar Sensor Module - Short Range Right Rear (UVZ)*
B275A	Hands-Free Liftgate Sensor — Upper	TC2	At the rear of the vehicle, center, mounted to the underside of the rear bumper	—	—
B275B	Hands-Free Liftgate Sensor — Lower	TC2	At the rear of the vehicle, center, mounted to the underside of the rear bumper	—	—
C1	Battery	—	In the engine compartment, on the left side, near the underhood fuse block	*Right Rear of Engine Compartment Components (1 of 2)*	—
C1B	Battery — Auxiliary	5W4 or 9C1	In the engine compartment, on the left side, forward of the underhood fuse block	—	—
E1A	Accent Lamp – Driver Seat	AN3 or A95	In the passenger compartment, under the driver seat	*Driver Seat Bottom Component Views*	*E1A Accent Lamp - Driver Seat (A95 or AN3)*

E1AA	Floor Accent Lamp – Left Front	—	In the passenger compartment, under the left side of the instrument panel	• *Back of Instrument Panel Components (X88/Z88 with D07)* • *Back of Instrument Panel Components (X88/Z88 without D07)* • *Back of Instrument Panel Components (Z75)*	*E1AA Floor Accent Lamp - Left Front*
E1AB	Floor Accent Lamp – Right Front	—	In the passenger compartment, under the right side of the instrument panel	• *Back of Instrument Panel Components (X88/Z88 with D07)* • *Back of Instrument Panel Components (X88/Z88 without D07)* • *Back of Instrument Panel Components (Z75)*	*E1AB Floor Accent Lamp - Right Front*
E1B	Accent Lamp – Passenger Seat	AN3 or A95	In the passenger compartment, under the passenger seat	—	*E1B Accent Lamp - Passenger Seat (A95 or AN3)*
E1C	Accent Lamp – Driver Door Handle	—	In the passenger compartment, forward of center, left side, on the driver door, near the door handle	*Driver Door Components*	*E1C Accent Lamp - Driver Door Handle*
E1D	Accent Lamp – Driver Door	Z75	In the passenger compartment, forward of center, left side, on the driver door, in the arm rest	*Driver Door Components*	*E1D Accent Lamp - Driver Door (Z75)*
E1E	Accent Lamp – Left Rear Door Handle	—	In the passenger compartment, rearward of center, left side, on the left rear door, near the door handle	*Left Rear Door Components*	*E1E Accent Lamp - Left Rear Door Handle*
E1F	Accent Lamp – Right Rear Door Handle	—	In the passenger compartment, rearward of center, right side, on the right rear door, near the door handle	*Right Rear Door Components*	*E1F Accent Lamp - Right Rear Door Handle*
E1LR	Accent Lamp – Left Rear Door	Z75	In the passenger compartment, rearward of center, left side, on the left rear door, above the door handle	*Left Rear Door Components*	*E1LR Accent Lamp - Left Rear Door (Z75)*
E1M	Accent Lamp – Passenger Door Handle	—	In the passenger compartment, forward of center, right side, on the passenger door, near the door handle	*Passenger Door Components*	*E1M Accent Lamp - Passenger Door Handle*
E1P	Accent Lamp – Passenger Door	Z75	In the passenger compartment, forward of center, right side, on the passenger door, in the arm rest	*Passenger Door Components*	*E1P Accent Lamp - Passenger Door (Z75)*
E1RR	Accent Lamp – Right Rear Door	Z75	In the passenger compartment, rearward of center, right side, on the right rear door, above the door handle	*Right Rear Door Components*	*E1RR Accent Lamp - Right Rear Door (Z75)*
E2LF	Side Marker Lamp – Left Front	—	At the left front corner of the vehicle, inside the headlamp assembly, part of the headlamp assembly	• *Front of Vehicle Components (X88)* • *Front of Vehicle Components (Z75)*	—
E2RF	Side Marker Lamp – Right Front	—	At the right front corner of the vehicle, inside the headlamp assembly, part of the headlamp assembly	• *Front of Vehicle Components (X88)* • *Front of Vehicle Components (Z75)*	—
E4A	Cornering Lamp – Left	Z75	At the front left corner of the vehicle, in the front fascia, in the multifunction lamp assembly	—	—
E4AC	Park/Daytime Running Lamp – Left	X88 or Z88	At the left front corner of the vehicle, inside the headlamp assembly, part of the headlamp assembly	*Front of Vehicle Components (X88)*	—

E4AD	Park/Daytime Running Lamp – Right	X88 or Z88	At the right front corner of the vehicle, inside the headlamp assembly, part of the headlamp assembly	*Front of Vehicle Components (X88)*	—
E4AL	Park/Daytime Running Lamp – Left Lower	Z75	At the front left corner of the vehicle, in the front fascia, in the multifunction lamp assembly	*Front of Vehicle Components (Z75)*	—
E4AM	Park/Daytime Running Lamp – Right Lower	Z75	At the front right corner of the vehicle, in the front fascia, in the multifunction lamp assembly	*Front of Vehicle Components (Z75)*	—
E4B	Cornering Lamp – Right	Z75	At the front right corner of the vehicle, in the front fascia, in the multifunction lamp assembly	—	—
E4C	Daytime Running Lamp – Left	Z75	At the left front corner of the vehicle, inside the headlamp assembly, part of the headlamp assembly	*Front of Vehicle Components (Z75)*	—
E4D	Daytime Running Lamp – Right	Z75	At the right front corner of the vehicle, inside the headlamp assembly, part of the headlamp assembly	*Front of Vehicle Components (Z75)*	—
E4E	Headlamp – Left High Beam	X88 or Z88	At the left front corner of the vehicle, inside the headlamp assembly	*Front of Vehicle Components (X88)*	*E4E Headlamp - Left High Beam (X88 or Z88)*
E4E	Headlamp – Left High Beam	Z75	At the left front corner of the vehicle, inside the headlamp assembly, part of the headlamp assembly	*Front of Vehicle Components (Z75)*	—
E4F	Headlamp – Right High Beam	X88 or Z88	At the right front corner of the vehicle, inside the headlamp assembly	*Front of Vehicle Components (X88)*	*E4F Headlamp - Right High Beam (X88 or Z88)*
E4F	Headlamp – Right High Beam	Z75	At the right front corner of the vehicle, inside the headlamp assembly, part of the headlamp assembly	*Front of Vehicle Components (Z75)*	—
E4G	Headlamp – Left Low Beam	X88 or Z88	At the left front corner of the vehicle, inside the headlamp assembly	*Front of Vehicle Components (X88)*	*E4G Headlamp - Left Low Beam (X88 or Z88 without T4F)*
E4G	Headlamp – Left Low Beam	Z75	At the left front corner of the vehicle, inside the headlamp assembly, part of the headlamp assembly	*Front of Vehicle Components (Z75)*	—
E4H	Headlamp – Right Low Beam	X88 or Z88	At the right front corner of the vehicle, inside the headlamp assembly	*Front of Vehicle Components (X88)*	*E4H Headlamp - Right Low Beam (X88 or Z88 without T4F)*
E4H	Headlamp – Right Low Beam	Z75	At the right front corner of the vehicle, inside the headlamp assembly, part of the headlamp assembly	*Front of Vehicle Components (Z75)*	—
E4J	Park Lamp – Left Front	X88 without Y91	At the left front corner of the vehicle, inside the headlamp assembly	—	—
E4K	Park Lamp – Right Front	X88 without Y91	At the right front corner of the vehicle, inside the headlamp assembly	—	—
E4LF	Turn Signal Lamp – Left Front	X88 or Z88	At the left front corner of the vehicle, inside the headlamp assembly	*Front of Vehicle Components (X88)*	—
E4LF	Turn Signal Lamp – Left Front	Z75	At the front left corner of the vehicle, in the front fascia, in the multifunction lamp assembly	*Front of Vehicle Components (Z75)*	—
E4LR	Turn Signal Lamp – Left Rear	Z88, Z75, or X88 with T89	At the left rear corner of the vehicle, inside the tail lamp assembly	• *Rear of Vehicle Components (Z88)* • *Rear of Vehicle Components (Z75)*	—

E4RF	Turn Signal Lamp – Right Front	X88 or Z88	At the right front corner of the vehicle, inside the headlamp assembly	*Front of Vehicle Components (X88)*	—
E4RF	Turn Signal Lamp – Right Front	Z75	At the front right corner of the vehicle, in the front fascia, in the multifunction lamp assembly	*Front of Vehicle Components (Z75)*	—
E4RR	Turn Signal Lamp – Right Rear	Z88, Z75, or X88 with T89	At the right rear corner of the vehicle, inside the tail lamp assembly	• *Rear of Vehicle Components (Z88)* • *Rear of Vehicle Components (Z75)*	—
E4Y	Turn Signal Repeater Lamp – Left	DL3	At the front of the Left front door, part of the Outside Rearview Mirror, part of the mirror glass	—	—
E4Y	Turn Signal Repeater Lamp – Left	DR4	At the front of the Left front door, part of the Outside Rearview Mirror	—	—
E4Z	Turn Signal Repeater Lamp – Right	DL3	At the front of the Right front door, part of the Outside Rearview Mirror, part of the mirror glass	—	—
E4Z	Turn Signal Repeater Lamp – Right	DR4	At the front of the Right front door, part of the Outside Rearview Mirror	—	—
E5A	Backup Lamp – Left	X88 or Z88	At the left rear corner of the vehicle, inside the tail lamp assembly	• *Rear of Vehicle Components (X88)* • *Rear of Vehicle Components (Z88)*	*E5A Backup Lamp - Left (X88 or Z88)*
E5A	Backup Lamp – Left	Z75	At the left rear corner of the vehicle, inside the tail lamp assembly, part of the tail lamp assembly	*Rear of Vehicle Components (Z75)*	—
E5B	Backup Lamp – Right	X88 or Z88	At the right rear corner of the vehicle, inside the tail lamp assembly	• *Rear of Vehicle Components (X88)* • *Rear of Vehicle Components (Z88)*	*E5B Backup Lamp - Right (X88 or Z88)*
E5B	Backup Lamp – Right	Z75	At the right rear corner of the vehicle, inside the tail lamp assembly, part of the tail lamp assembly	*Rear of Vehicle Components (Z75)*	—
E5E	Tail Lamp – Left	—	At the left rear corner of the vehicle, inside the tail lamp assembly	• *Rear of Vehicle Components (X88)* • *Rear of Vehicle Components (Z88)* • *Rear of Vehicle Components (Z75)*	—
E5F	Tail Lamp – Right	—	At the right rear corner of the vehicle, inside the tail lamp assembly	• *Rear of Vehicle Components (X88)* • *Rear of Vehicle Components (Z88)* • *Rear of Vehicle Components (Z75)*	—
E5L	Stop Lamp – Left	Z88, Z75, or X88 with T89	At the left rear corner of the vehicle, inside the tail lamp assembly	• *Rear of Vehicle Components (Z88)* • *Rear of Vehicle Components (Z75)*	—
E5R	Stop Lamp – Right	Z88, Z75, or X88 with T89	At the right rear corner of the vehicle, inside the tail lamp assembly	• *Rear of Vehicle Components (Z88)* • *Rear of Vehicle Components (Z75)*	—
E5AS	Stop/Turn Signal Lamp — Left Upper	X88 without T89	At the left rear corner of the vehicle, inside the tail lamp assembly	*Rear of Vehicle Components (X88)*	—
E5AT	Stop/Turn Signal Lamp — Left Lower	X88 without T89	At the left rear corner of the vehicle, inside the tail lamp assembly	*Rear of Vehicle Components (X88)*	—

E5AU	Stop/Turn Signal Lamp — Right Upper	X88 without T89	At the right rear corner of the vehicle, inside the tail lamp assembly	*Rear of Vehicle Components (X88)*	—
E5AV	Stop/Turn Signal Lamp — Right Lower	X88 without T89	At the right rear corner of the vehicle, inside the tail lamp assembly	*Rear of Vehicle Components (X88)*	—
E6	Center High Mounted Stop Lamp	—	At the rear of the vehicle, center, mounted above the liftgate window	• *Rear of Vehicle Components (X88)* • *Rear of Vehicle Components (Z88)* • *Rear of Vehicle Components (Z75)*	*E6 Center High Mounted Stop Lamp*
E7L	License Plate Lamp – Left	—	At the rear of the vehicle, near center, mounted above the license plate mount	• *Rear of Vehicle Components (X88)* • *Rear of Vehicle Components (Z88)* • *Rear of Vehicle Components (Z75)*	*E7L License Plate Lamp - Left*
E7R	License Plate Lamp – Right	—	At the rear of the vehicle, near center, mounted above the license plate mount	• *Rear of Vehicle Components (X88)* • *Rear of Vehicle Components (Z88)* • *Rear of Vehicle Components (Z75)*	*E7R License Plate Lamp - Right*
E8A	Door Sill Plate Lamp – Driver	Z75	In the passenger compartment, forward of center, left, at the bottom of the driver door opening on the sill	*Left Front of Passenger Compartment Views (Z75)*	*E8A Door Sill Plate Lamp - Driver (Z75)*
E8B	Door Sill Plate Lamp – Passenger	Z75	In the passenger compartment, forward of center, right, at the bottom of the passenger door opening on the sill	—	*E8B Door Sill Plate Lamp - Passenger (Z75)*
E8Q	Door Sill Plate Lamp – Left Rear	Z75	In the passenger compartment, forward of center, left, at the bottom of the left rear door opening on the sill	*Left Rear of Passenger Compartment Views (Z75)*	*E8Q Door Sill Plate Lamp - Left Rear (Z75)*
E8R	Door Sill Plate Lamp – Right Rear	Z75	In the passenger compartment, forward of center, right, at the bottom of the right rear door opening on the sill	—	*E8R Door Sill Plate Lamp - Right Rear (Z75)*
E8XA	Door Handle Courtesy Lamp – Driver Exterior	HD7	On the outside of the vehicle, left side, rear of driver door, part of the door handle assembly	—	—
E8XB	Door Handle Courtesy Lamp – Passenger Exterior	HD7	On the outside of the vehicle, right side, rear of passenger door, part of the door handle assembly	—	—
E8XC	Door Handle Courtesy Lamp – Left Rear Exterior	HD7	On the outside of the vehicle, left side, rear of left rear door, part of the door handle assembly	—	—
E8XD	Door Handle Courtesy Lamp – Right Rear Exterior	HD7	On the outside of the vehicle, right side, rear of right rear door, part of the door handle assembly	—	—
E8YD	Outside Rearview Mirror Courtesy Lamp – Driver	DL3	At the front of the Left front door, bottom of the Outside Rearview Mirror	• *Front of Vehicle Components (X88)* • *Front of Vehicle Components (Z75)*	*E8YD Outside Rearview Mirror Courtesy Lamp - Driver (DL3)*
E8YP	Outside Rearview Mirror Courtesy Lamp – Passenger	DL3	At the front of the Right front door, bottom of the Outside Rearview Mirror	• *Front of Vehicle Components (X88)* • *Front of Vehicle Components (Z75)*	*E8YP Outside Rearview Mirror Courtesy Lamp - Passenger (DL3)*
E8ZL	Running Board Step Courtesy Lamp – Left	BRS	Outside of vehicle, left side, under the rocker, mounted in the running board	—	—
E8ZR	Running Board Step Courtesy Lamp – Right	BRS	Outside of vehicle, right side, under the rocker, mounted in the running board	—	—

E13LA	Headlamp Assembly – Left	—	At the left front corner of the vehicle	• *Front of Vehicle Components (X88)* • *Front of Vehicle Components (Z75)*	—
E13RA	Headlamp Assembly – Right	—	At the right front corner of the vehicle	• *Front of Vehicle Components (X88)* • *Front of Vehicle Components (Z75)*	—
E14A	Seat Heating Element – Driver Back	KA1 or KB6	In the passenger compartment, in the driver seat back	—	*E14A Seat Heating Element - Driver Back (KA1 or KB6)*
E14B	Seat Heating Element – Driver Cushion	KA1 or KB6	In the passenger compartment, part of the driver seat cushion	*Left Front of Driver Seat Component Views*	*E14B Seat Heating Element - Driver Cushion (KA1 or KB6)*
E14C	Seat Heating Element – Passenger Back	KA1 or KB6	In the passenger compartment, in the passenger seat back	—	*E14C Seat Heating Element - Passenger Back (KA1 or KB6)*
E14D	Seat Heating Element – Passenger Cushion	KA1 or KB6	In the passenger compartment, part of the passenger seat cushion	*Passenger Seat Components View*	*E14D Seat Heating Element - Passenger Cushion (KA1 or KB6)*
E14F	Seat Heating Element – Left Rear Cushion	KA6	In the passenger compartment, in the 2nd row seat, left cushion	*2nd Row Seat Cushions Component Views*	*E14F Seat Heating Element - Left Rear Cushion (KA6)*
E14H	Seat Heating Element – Right Rear Cushion	KA6	In the passenger compartment, in the 2nd row seat, right cushion	*2nd Row Seat Cushions Component Views*	*E14H Seat Heating Element - Right Rear Cushion (KA6)*
E15	Steering Wheel Heater	UVD	In the passenger compartment, in the steering wheel.	—	*E15 Steering Wheel Heater (UVD)*
E17D	Outside Rearview Mirror Glass – Driver	—	Outside of the vehicle, left side, forward on the driver door, inside the outside rear view mirror	—	• *E17D Outside Rearview Mirror Glass - Driver X1 (DD8)* • *E17D Outside Rearview Mirror Glass - Driver X2 (DD8)* • *E17D Outside Rearveiw Mirror Glass - Driver X3 (UKC)* • *E17D Outside Rearveiw Mirror Glass - Driver X4 (DL3)*
E17P	Outside Rearview Mirror Glass – Passenger	—	Outside of the vehicle, right side, forward on the passenger door, inside the outside rear view mirror	—	• *E17P Outside Rearview Mirror Glass - Passenger X1 (DD8)* • *E17P Outside Rearview Mirror Glass - Passenger X2 (DD8)* • *E17P Outside Rearveiw Mirror Glass - Passenger X3 (UKC)* • *E17P Outside Rearview Mirror Glass - Passenger X4 (DL3)*
E18	Rear Defogger Grid	—	In the passenger compartment, on the inside of the liftgate window	• *Rear of Vehicle Components (X88)* • *Rear of Vehicle Components (Z88)* • *Rear of Vehicle Components (Z75)*	• *E18 Rear Defogger Grid X1* • *E18 Rear Defogger Grid X2*
E28	Center Console Compartment Lamp	D07 without DCK	In the passenger compartment, inside the center console compartment	• *Center Console Internal Component Views (X88/Z88)* • *Center Console Top Component Views (Z75)*	*E28 Center Console Compartment Lamp (D07 without DCK)*
E29LF	Fog Lamp – Left Front	T3U	At the left front corner of the vehicle, in the front bumper	*Front of Vehicle Components (X88)*	*E29LF Fog Lamp - Left Front (T3U)*

E29RF	Fog Lamp – Right Front	T3U	At the right front corner of the vehicle, in the front bumper	*Front of Vehicle Components (X88)*	*E29RF Fog Lamp - Right Front (T3U)*
E29LR	Fog Lamp – Left Rear	T79	At the left rear corner of the vehicle, in the rear bumper	—	• *E29LR Fog Lamp - Left Rear (X88 with T79)* • *E29LR Fog Lamp - Left Rear (Z75 with T79)*
E29RR	Fog Lamp – Right Rear	T79	At the right rear corner of the vehicle, in the rear bumper	—	• *E29RR Fog Lamp - Right Rear (X88 with T79)* • *E29RR Fog Lamp - Right Rear (Z75 with T79)*
E31L	Sunshade Mirror Lamp – Left	—	In the passenger compartment, on the left sunshade	*Overhead Console Components*	*E31L Sunshade Mirror Lamp - Left*
E31R	Sunshade Mirror Lamp – Right	—	In the passenger compartment, on the right sunshade	*Overhead Console Components*	*E31R Sunshade Mirror Lamp - Right*
E32	Cigarette Lighter Receptacle	DT4 with AZ3	In the passenger compartment, center of instrument panel, below P17 Info Display	—	*E32 Cigarette Lighter Receptacle (DT4 with AZ3)*
E32	Cigarette Lighter Receptacle	DT4 with D07	In the passenger compartment, on top of the floor console, below P17 Info Display	—	*E32 Cigarette Lighter Receptacle (DT4 with D07)*
E35L	Exterior Spot Lamp – Left	7X6 or 7X7	In the passenger compartment, forward, top left corner of the instrument panel near the A-Pillar	*Back of Instrument Panel Components (X88/Z88 without D07)*	*E35L Exterior Spot Lamp - Left (7X6 or 7X7)*
E35R	Exterior Spot Lamp – Right	7X7	In the passenger compartment, forward, top right corner of the instrument panel near the A-Pillar	*Back of Instrument Panel Components (X88/Z88 without D07)*	*E35R Exterior Spot Lamp - Right (7X7)*
E36AH	Dome Lamp	906	In the rear compartment, near center, overhead, in the headliner	—	*E36AH Dome Lamp (906)*
E37B	Dome/Reading Lamps – 2nd Row	without U42	In the passenger compartment, overhead, in the headliner between the front and second row seating	*Headliner Components*	*E37B Dome/Reading Lamps - 2nd Row (without U42)*
E37B	Dome/Reading Lamps – 2nd Row	U42	In the passenger compartment, overhead, in the headliner between the front and second row seating, part of the second row video display	*Headliner Components*	—
E37C	Dome/Reading Lamps – 3rd Row	without DNU	In the passenger compartment, overhead, in the headliner behind the second row seating	*Headliner Components*	*E37C Dome/Reading Lamps - 3rd Row (without DNU)*
E37C	Dome/Reading Lamps – 3rd Row	DNU	In the passenger compartment, overhead, in the headliner behind the second row seating, part of the third row video display	*Headliner Components*	—
E37EL	Dome/Reading Lamps – Front Overhead Console Left	—	In the passenger compartment, at the left front of the headliner, in the overhead console	*Overhead Console Components*	*E37EL Dome/Reading Lamps - Front Overhead Console Left*
E37ER	Dome/Reading Lamps – Front Overhead Console Right	—	In the passenger compartment, at the right front of the headliner, in the overhead console	*Overhead Console Components*	*E37ER Dome/Reading Lamps - Front Overhead Console Right*
E37H	Dome/Reading Lamps – Left Roof Rail	U42	In the passenger compartment, overhead, in the video display between the front and second row seating	*Headliner Components*	*E37H Dome/Reading Lamps - Left Roof Rail (U42)*
E37J	Dome/Reading Lamps – Right Roof Rail	U42	In the passenger compartment, overhead, in the video display between the front and second row seating	*Headliner Components*	*E37J Dome/Reading Lamps - Right Roof Rail (U42)*

E38	Flood Lamp - Center Console	—	In the passenger compartment, overhead, forward of center, on the overhead console	*Overhead Console Components*	*E38 Flood Lamp - Center Console*
E42L	Tail Lamp Assembly – Left	—	Outside of the vehicle, at the left rear corner of the vehicle	• *Rear of Vehicle Components (X88)* • *Rear of Vehicle Components (Z88)* • *Rear of Vehicle Components (Z75)*	—
E42R	Tail Lamp Assembly – Right	—	Outside of the vehicle, at the right rear corner of the vehicle	• *Rear of Vehicle Components (X88)* • *Rear of Vehicle Components (Z88)* • *Rear of Vehicle Components (Z75)*	—
E55LR	Flood Lamp – Left Rear Door Pocket	Z75	In the passenger compartment, rear of center, left side, in the left rear door trim, inside the arm rest	*Left Rear Door Components*	*E55LR Flood Lamp - Left Rear Door Pocket (Z75)*
E55RR	Flood Lamp – Right Rear Door Pocket	Z75	In the passenger compartment, rear of center, right side, in the right rear door trim, inside the arm rest	*Right Rear Door Components*	*E55RR Flood Lamp - Right Rear Door Pocket (Z75)*
E63D	Flood Lamp – Driver Door Handle	Z75	In the passenger compartment, forward of center, left side, in the driver door trim, inside the door handle pocket	*Driver Door Components*	*E63D Flood Lamp - Driver Door Handle (Z75)*
E63P	Flood Lamp – Passenger Door Handle	Z75	In the passenger compartment, forward of center, right side, in the passenger door trim, inside the door handle pocket	*Passenger Door Components*	*E63P Flood Lamp - Passenger Door Handle (Z75)*
E69L	Multifunction Lamp Assembly – Front Fascia Left	Z75	Outside of the vehicle, front left corner, mounted in the front fascia	*Front of Vehicle Components (Z75)*	—
E69R	Multifunction Lamp Assembly – Front Fascia Right	Z75	Outside of the vehicle, front right corner, mounted in the front fascia	*Front of Vehicle Components (Z75)*	—
F101	Passenger Instrument Panel Air Bag	—	In the passenger compartment, at the top of the passenger side of the instrument panel	• *Front of Instrument Panel Components (X88/Z88 with D07)* • *Front of Instrument Panel Components (X88/Z88 without D07)* • *Front of Instrument Panel Components (Z75)*	• *F101 Passenger Instrument Panel Air Bag X1* • *F101 Passenger Instrument Panel Air Bag X2*
F105L	Roof Rail Air Bag – Left	—	In the passenger compartment, left side, overhead, along the left roof rail	—	*F105L Roof Rail Air Bag - Left*
F105R	Roof Rail Air Bag – Right	—	In the passenger compartment, right side, overhead, along the right roof rail	—	*F105R Roof Rail Air Bag - Right*
F106D	Seat Side Air Bag – Driver	—	In the passenger compartment, on the left side of the left front seat back	—	*F106D Seat Side Air Bag - Driver*
F106DA	Seat Side Air Bag – Driver Inboard	AYQ	In the passenger compartment, on the right side of the left front seat back	—	*F106DA Seat Side Air Bag - Driver Inboard (AYQ)*
F106P	Seat Side Air Bag – Passenger	—	In the passenger compartment, on the right side of the right front seat back	—	*F106P Seat Side Air Bag - Passenger*
F107	Steering Wheel Air Bag	—	In the passenger compartment, in the center of the steering wheel	*Steering Wheel Components (Z75)*	• *F107 Steering Wheel Air Bag X1* • *F107 Steering Wheel Air Bag X2*

F112D	Seat Belt Retractor Pretensioner – Driver	—	In the passenger compartment, left side, at the base of the B-pillar	*Left Front of Passenger Compartment Views (Z75)*	*F112D Seat Belt Retractor Pretensioner - Driver*
F112P	Seat Belt Retractor Pretensioner – Passenger	—	In the passenger compartment, right side, at the base of the B-pillar	—	• *F112P Seat Belt Retractor Pretensioner - Passenger X1* • *F112P Seat Belt Retractor Pretensioner - Passenger X2*
F113D	Seat Belt Anchor Pretensioner – Driver	—	In the passenger compartment, on the lower outside of the driver seat, mounted to the seat track	*Left Front of Driver Seat Component Views*	*F113D Seat Belt Anchor Pretensioner - Driver*
F113P	Seat Belt Anchor Pretensioner – Passenger	—	In the passenger compartment, on the lower outside of the passenger seat, mounted to the seat track	*Passenger Seat Components View*	*F113P Seat Belt Anchor Pretensioner - Passenger*
G1	A/C Compressor	—	In the engine compartment, right side, mounted on the lower front of the engine	—	—
G3	Air Suspension Compressor	Z85 or Z95	Under the vehicle, near the rear of the vehicle	—	*G3 Air Suspension Compressor (Z85 or Z95)*
G10L	Cooling Fan Motor – Left	—	At the front of the engine compartment, in the center of the left fan assembly	*Cooling Fans*	*G10L Cooling Fan Motor - Left*
G10R	Cooling Fan Motor – Right	—	At the front of the engine compartment, in the center of the right fan assembly	*Cooling Fans*	*G10R Cooling Fan Motor - Right*
G12	Fuel Pump	—	Under the vehicle, in the fuel tank, part of the fuel pump and level sensor assembly	—	—
G13	Generator	—	In the engine compartment, right of center, at the top right front of the engine	—	• *G13 Generator X1* • *G13 Generator X2*
G18	High Pressure Fuel Pump	—	In the engine compartment, rearward of center, at the top back center of the engine, underneath the intake manifold	*Top Right Side of Engine Components (L83/L86)*	*G18 High Pressure Fuel Pump*
G19	Rear Window Washer Pump	—	In the engine compartment, left side, forward of the wheel well, behind the driver side head lamp assembly	*Left Front Corner of Vehicle Components*	*G19 Rear Window Washer Pump*
G24	Windshield Washer Pump	—	In the engine compartment, left side, forward of the wheel well, attached to the washer fluid reservoir, below the left headlamp assembly	*Left Front Corner of Vehicle Components*	*G24 Windshield Washer Pump*
G31D	Seat Lumbar/Bolster Pump — Driver	ULT	In the passenger compartment, inside driver seat cushion	—	*G31D Seat Lumbar/Bolster Pump - Driver (ULT)*
G31P	Seat Lumbar/Bolster Pump — Passenger	ULT	In the passenger compartment, inside passenger seat cushion	—	*G31P Seat Lumbar/Bolster Pump - Passenger (ULT)*
K4	Assist Step Control Module	BRS	Underneath the vehicle, along the outside of the left frame rail, near the back of the driver door	*Chassis Components View*	• *K4 Assist Step Control Module X1 (BRS)* • *K4 Assist Step Control Module X2 (BRS)*
K8A	Blower Motor Control Module – Auxiliary	—	In the rear compartment, right side, behind the interior trim, near D-Pillar	—	• *K8A Blower Motor Control Module - Auxiliary X1* • *K8A Blower Motor Control Module - Auxiliary X2*

K9	Body Control Module	—	In the passenger compartment, at the lower left side of the instrument panel	*Left Front of Passenger Compartment Views (Z75)*	- *K9 Body Control Module X1* - *K9 Body Control Module X2* - *K9 Body Control Module X3* - *K9 Body Control Module X4* - *K9 Body Control Module X5* - *K9 Body Control Module X6* - *K9 Body Control Module X7*
K14	Distance Sensing Cruise Control Module	K59	Front of vehicle, left side bottom, behind the front fascia, on the frame rail, near ground G101	*Behind Front Fascia Components (X88/Z88)*	*K14 Distance Sensing Cruise Control Module (K59)*
K17	Electronic Brake Control Module	—	Underneath the vehicle, left side, along the inside of the frame rail, near the left side of the transmission	*Chassis Components View*	*K17 Electronic Brake Control Module*
K19	Suspension Control Module	Z95	Underneath the vehicle, at the back, left of center, top side of the rear most chassis cross member, above spare tire	*Chassis Components View*	*K19 Suspension Control Module (Z95)*
K20	Engine Control Module	—	In the engine compartment, to the left of the engine	*Left Side of Engine Compartment Component View*	- *K20 Engine Control Module X1* - *K20 Engine Control Module X2* - *K20 Engine Control Module X3*
K29	Seat Heating Control Module	KA1	In the passenger compartment, forward of center, right side, under the passenger seat cushion	—	- *K29 Seat Heating Control Module X1 (KA1)* - *K29 Seat Heating Control Module X2 (KA1)*
K29R	Seat Heating Control Module – Rear	KA6	In the passenger compartment, rear of center, left side, under the second row seat cushion	*2nd Row Bench Seat Cushions Bottom Component Views*	- *K29R Seat Heating Control Module - Rear X1 (KA6)* - *K29R Seat Heating Control Module - Rear X2 (KA6)*
K32	Steering Wheel Heating Control Module	UVD	In the passenger compartment, on lower left side of the steering wheel assembly behind the steering wheel air bag	—	*K32 Steering Wheel Heating Control Module X1 (UVD)*
K33	HVAC Control Module	—	In the passenger compartment, in the passenger side of the Instrument Panel, behind the upper glove box, mounted on the HVAC box	—	- *K33 HVAC Control Module X1* - *K33 HVAC Control Module X2* - *K33 HVAC Control Module X3* - *K33 HVAC Control Module X4*
K36	Inflatable Restraint Sensing and Diagnostic Module	—	In the passenger compartment, under the center console, on the floor	*Left Front of Passenger Compartment Views (Z75)*	- *K36 Inflatable Restraint Sensing and Diagnostic Module X1* - *K36 Inflatable Restraint Sensing and Diagnostic Module X2*
K38	Chassis Control Module	IK9, JL1 or Z85	Under the vehicle, at the rear, right side, mounted to the bracket above the spare tire	*Chassis Components View*	- *K38 Chassis Control Module (IK9)* - *K38 Chassis Control Module (JL1 or Z85)*

K39	Liftgate Control Module	TB5	In the rear compartment, left of center, at the rear, in the tailgate behind the trim.	*Liftgate Components*	• *K39 Liftgate Control Module X1 (TB5)* • *K39 Liftgate Control Module X2 (TB5)* • *K39 Liftgate Control Module X3 (TB5)*
K40D	Seat Memory Control Module – Driver	A45 or ULT	In the passenger compartment, forward of center, left side, under the driver seat cushion	*Driver Seat Bottom Component Views*	• *K40D Seat Memory Control Module - Driver X1 (A45 or ULT)* • *K40D Seat Memory Control Module - Driver X2 (A45 or ULT)* • *K40D Seat Memory Control Module - Driver X3 (A45 or ULT)* • *K40D Seat Memory Control Module - Driver X4 (A45 or ULT)* • *K40D Seat Memory Control Module - Driver X5 (A45 or ULT)* • *K40D Seat Memory Control Module - Driver X6 (A45 or ULT)*
K40P	Seat Memory Control Module – Passenger	AG2 or ULT	In the passenger compartment, forward of center, right side, under the passenger seat cushion	—	• *K40P Seat Memory Control Module - Passenger X1 (AG2 or ULT)* • *K40P Seat Memory Control Module - Passenger X2 (AG2 or ULT)* • *K40P Seat Memory Control Module - Passenger X3 (AG2 or ULT)*
K41	Front and Rear Parking Assist Control Module	UD5 or UD7	In the rear compartment, behind the rear seat, left side near the wheel well, behind the rear compartment trim	*Left Rear Cargo Area Components*	• *K41 Front and Rear Parking Assist Control Module X1 (UD5 or UD7)* • *K41 Front and Rear Parking Assist Control Module X2 (UD5 or UD7)* • *K41 Front and Rear Parking Assist Control Module X3 (UD5 or UD7)*
K43	Power Steering Control Module	—	Underneath the vehicle, towards the front, on the power steering rack assembly	—	• *K43 Power Steering Control Module X1* • *K43 Power Steering Control Module X2* • *K43 Power Steering Control Module X3*
K53D	Seat Blower Assembly – Driver Back	KB6	In the passenger compartment, forward of center, left side, inside the driver seat back	—	*K53D Seat Blower Assembly - Driver Back (KB6)*
K53P	Seat Blower Assembly – Passenger Back	KB6	In the passenger compartment, forward of center, right side, inside the passenger seat back	—	*K53P Seat Blower Assembly - Passenger Back (KB6)*
K55D	Seat Blower Assembly – Driver Cushion	KB6	In the passenger compartment, forward of center, left side, inside the driver seat cushion	*Driver Seat Bottom Component Views*	*K55D Seat Blower Assembly - Driver Cushion (KB6)*
K55P	Seat Blower Assembly – Passenger Cushion	KB6	In the passenger compartment, forward of center, right side, inside the passenger seat cushion	—	*K55P Seat Blower Assembly - Passenger Cushion (KB6)*
K60	Steering Column Lock Module	BTM	In the passenger compartment, front, left of center, mounted to the bottom of the steering column	*Steering Column Components (1 of 2)*	*K60 Steering Column Lock Module (BTM)*

K69	Transfer Case Control Module	NP0 or NQH	In the passenger compartment, under the instrument panel, right of the accelerator pedal	*Behind Left Side of Instrument Panel Components (1 of 2)*	• *K69 Transfer Case Control Module X1 (NP0 or NQH)* • *K69 Transfer Case Control Module X2 (NP0 or NQH)* • *K69 Transfer Case Control Module X3 (NP0 or NQH)*
K71	Transmission Control Module	MYC	In the engine compartment, inside the transmission assembly, part of the control solenoid valve	—	—
K71	Transmission Control Module	M5U	Underneath the vehicle, forward of center, left side of the transmission assembly	—	*K71 Transmission Control Module (M5U)*
K73	Telematics Communication Interface Control Module	UE1	In the passenger compartment, center of the instrument panel, behind the radio	*Back of Instrument Panel Components (Z75)*	• *K73 Telematics Communication Interface Control Module X1 (UE1)* • *K73 Telematics Communication Interface Control Module X2 (UE1)* • *K73 Telematics Communication Interface Control Module X5 (UE1 with CV3 or VV4)* • *K73 Telematics Communication Interface Control Module X7 (UE1 with CV3)* • *K73 Telematics Communication Interface Control Module X7 (UE1 with VV4 without CV3)*
K74	Human Machine Interface Control Module	IO5 or IO6	In the passenger compartment, right side of the instrument panel, below the passenger air bag	• *Back of Instrument Panel Components (X88/Z88 with D07)* • *Back of Instrument Panel Components (X88/Z88 without D07)* • *Back of Instrument Panel Components (Z75)*	• *K74 Human Machine Interface Control Module X1 (IO5 or IO6)* • *K74 Human Machine Interface Control Module X2 (IO5 or IO6)* • *K74 Human Machine Interface Control Module X3 (IO5 or IO6)* • *K74 Human Machine Interface Control Module X4 (IO5 or IO6)* • *K74 Human Machine Interface Control Module X5 (IO5 or IO6)* • *K74 Human Machine Interface Control Module X7 (IO6)*
K77	Remote Control Door Lock Receiver	—	In the passenger compartment, right rear, on C-pillar	—	• *K77 Remote Control Door Lock Receiver X1* • *K77 Remote Control Door Lock Receiver X2*
K83	Parking Brake Control Module	J71	Underneath the vehicle, at the rear, near center	*Chassis Components View*	*K83 Parking Brake Control Module (J71)*
K84	Keyless Entry Control Module	ATH or BTM	In the rear compartment, left side, underneath rear quarter window behind trim	*Left Rear Cargo Area Components*	• *K84 Keyless Entry Control Module X1 (ATH or BTM)* • *K84 Keyless Entry Control Module X2 (ATH or BTM)*
K85	Passenger Presence Module	—	In the passenger compartment, under the front of the front passenger seat cushion	—	*K85 Passenger Presence Module*

K89	Immobilizer Control Module	without BTM	In the passenger compartment, on the driver side, near the ignition cylinder	—	*K89 Immobilizer Control Module*
K89	Immobilizer Control Module	BTM	In the passenger compartment, near center, between the driver and passenger seat, inside floor console	*Center Console Bottom Component Views*	*K89 Immobilizer Control Module*
K99	Steering Column Position Control Module	N38	In the passenger compartment, forward, left side, mounted to the bottom of the steering column	*Steering Column Components (1 of 2)*	• *K99 Steering Column Position Control Module X1 (N38)* • *K99 Steering Column Position Control Module X2 (N38)* • *K99 Steering Column Position Control Module X3 (N38)* • *K99 Steering Column Position Control Module X4 (N38)*
K101	Trailer Interface Control Module	VQ9	In the rear compartment, rear of vehicle	—	• *K101 Trailer Interface Control Module X1 (VQ9)* • *K101 Trailer Interface Control Module X2 (VQ9)*
K111	Fuel Pump Driver Control Module	—	Underneath the vehicle, rear, mounted to the bracket above the spare tire	*Chassis Components View*	*K111 Fuel Pump Driver Control Module*
K124	Active Safety Control Module	UGN with Z75	In the rear compartment, left side, underneath rear quarter glass window, behind trim	*Left Rear Cargo Area Components*	• *K124 Active Safety Control Module X1 (UGN with Z75)* • *K124 Active Safety Control Module X2 (UGN with Z75)*
K133	Trailer Brake Power Control Module	JL1	Under the vehicle, mounted to the bracket above the spare tire, next to K111	—	*K133 Trailer Brake Power Control Module (JL1)*
K157	Video Processing Control Module	UVH	In the passenger compartment, front, left side, left of steering column, behind instrument panel, near the BCM	*Left Front of Passenger Compartment Views (Z75)*	• *K157 Video Processing Control Module X1 (UVH)* • *K157 Video Processing Control Module X2 (UVH)*
K166L	Multifunction LED Control Module – Left Headlamp	—	Outside the vehicle, left front corner, inside headlamp assembly, part of the headlamp assembly	—	—
K166R	Multifunction LED Control Module – Right Headlamp	—	Outside the vehicle, right front corner, inside headlamp assembly, part of the headlamp assembly	—	—
K167L	Multifunction LED Control Module – Front Fascia Left	Z75	Outside the vehicle, left front corner, inside front fascia, part of the Multifunction Lamp Assembly	—	—
K167R	Multifunction LED Control Module – Front Fascia Right	Z75	Outside the vehicle, right front corner, inside front fascia, part of the Multifunction Lamp Assembly	—	—
K169	Folding Seat Control Module — 3rd Row	AS8	In the passenger compartment, in the 3rd row seat, left side, inside seat back in the lower left corner	*3rd Row Seat Back Component Views*	• *K169 Folding Seat Control Module - 3rd Row X1 (AS8)* • *K169 Folding Seat Control Module - 3rd Row X2 (AS8)*
K171	Hands-Free Liftgate Sensor Control Module	TC2	At the rear of the vehicle, center, mounted to the underside of the rear bumper	*Behind Rear Fascia Components*	*K171 Hands-Free Liftgate Sensor Control Module X1 (TC2)*

K174L	Multifunction LED Control Module — Left Tail Lamp	Z75 or Z88	At the left rear corner of the vehicle, internal to the left tail lamp assembly, part of the tail lamp assembly	—	—
K174R	Multifunction LED Control Module — Right Tail Lamp	Z75 or Z88	At the left rear corner of the vehicle, internal to the right tail lamp assembly, part of the tail lamp assembly	—	—
K175	Center Console Compartment Cooler Control Module	DCK	In the passenger compartment, center, inside center console at the floor	—	*K175 Center Console Compartment Cooler Control Module (DCK)*
KR58	Roof Beacon Relay	TRW	In the passenger compartment, overhead, in the overhead console	—	*KR58 Roof Beacon Relay (TRW)*
KR79	Auxiliary Battery Relay 1	5W4 or 9C1	In the engine compartment, left side, near C1B Auxiliary Battery	—	*KR79 Auxiliary Battery Relay 1 (5W4 or 9C1)*
KR81	Auxiliary Battery Relay 2	5W4 or 9C1	In the engine compartment, left side, near C1B Auxiliary Battery	—	• *KR81 Auxiliary Battery Relay 2 X1 (5W4 or 9C1)* • *KR81 Auxiliary Battery Relay 2 X2 (5W4 or 9C1)* • *KR81 Auxiliary Battery Relay 2 X3 (5W4 or 9C1)*
KR99	Air Suspension Relay	Z85 or Z95	In the engine compartment, left side	—	*KR99 Air Suspension Relay (Z85 or Z95)*
M4	Air Inlet Door Actuator	—	In the passenger compartment, behind the instrument panel glove box	—	*M4 Air Inlet Door Actuator*
M5	Adjustable Pedal Motor	JF4	In the passenger compartment, forward, left of center, mounted to the bulkhead under the lower left side of the instrument panel	*Behind Left Side of Instrument Panel Components (1 of 2)*	*M5 Adjustable Pedal Motor (JF4)*
M6B	Air Temperature Door Actuator – Auxiliary	—	In the rear compartment, under the right rear quarter window, forward of the rear blower under trim.	—	*M6B Air Temperature Door Actuator - Auxiliary*
M6L	Air Temperature Door Actuator – Left	—	In the passenger compartment, behind the instrument panel, on the HVAC case center	—	*M6L Air Temperature Door Actuator - Left*
M6R	Air Temperature Door Actuator – Right	—	In the passenger compartment, behind the instrument panel, on the HVAC case	—	*M6R Air Temperature Door Actuator - Right*
M7	Transmission Shift Lock Control Solenoid Actuator	—	In the passenger compartment, right side of the steering wheel, attached to transmission shift lever	*Steering Column Components (2 of 2)*	*M7 Transmission Shift Lock Control Solenoid Actuator*
M8	Blower Motor	—	In the passenger compartment, behind the passenger side of the instrument panel	—	*M8 Blower Motor*
M8B	Blower Motor — Auxiliary	—	In the rear compartment, right side, behind the interior trim, near D-Pillar	—	• *M8B Blower Motor Auxiliary (GMCH)* • *M8B Blower Motor Auxiliary (BEHR)*
M26	Front Axle Engagement Actuator	NP0 or NQH	Underside of the vehicle, at the front, center, on front axle	*Front Axle Components*	*M26 Front Axle Engagement Actuator (NP0 or NQH)*
M27	Fuel Door Unlatch Actuator	N08	Underside of the vehicle, near the back, left side, under rear quarter glass window, in rear quarter panel	—	*M27 Fuel Door Unlatch Actuator (N08)*

M31	Liftgate Motor	TB5	In the rear compartment, left of center, at the rear, in the tailgate, above the liftgate glass	*Liftgate Components*	*M31 Liftgate Motor (TB5)*
M33	Liftgate Window Latch Assembly	—	In the rear compartment, inside the tailgate, near center	*Liftgate Components*	*M33 Liftgate Window Latch Assembly*
M37B	Mode Door Actuator – Auxiliary	—	In the passenger compartment, forward, internal to the instrument panel	—	*M37B Mode Door Actuator - Auxiliary*
M37L	Mode Door Actuator – Left	—	In the passenger compartment, behind the left side of the instrument panel, on the upper left side of the HVAC module	—	*M37L Mode Door Actuator - Left*
M38	Power Steering Motor	—	Under the vehicle, part of the steering gear assembly	—	—
M45	Rear Wiper Motor	—	At rear of vehicle, in the liftgate	*Liftgate Components*	*M45 Rear Wiper Motor*
M50D	Seat Front Vertical Motor – Driver	—	In the passenger compartment, under the front of the driver seat, next to the right seat track	*Driver Seat Bottom Component Views*	*M50D Seat Front Vertical Motor - Driver*
M50P	Seat Front Vertical Motor – Passenger	—	In the passenger compartment, under the front of the passenger seat, next to the right seat track	—	*M50P Seat Front Vertical Motor - Passenger*
M51D	Seat Horizontal Motor – Driver	—	In the passenger compartment, under the center of the driver seat, between the seat tracks	—	*M51D Seat Horizontal Motor - Driver*
M51P	Seat Horizontal Motor – Passenger	—	In the passenger compartment, under the center of the passenger seat, between the seat tracks	—	*M51P Seat Horizontal Motor - Passenger*
M55D	Seat Rear Vertical Motor – Driver	—	In the passenger compartment, under the front of the driver seat, next to the left seat track	*Driver Seat Bottom Component Views*	*M55D Seat Rear Vertical Motor - Driver*
M55P	Seat Rear Vertical Motor – Passenger	—	In the passenger compartment, under the front of the passenger seat, next to the left seat track	—	*M55P Seat Rear Vertical Motor - Passenger*
M56D	Seat Recline Motor – Driver	—	In the passenger compartment, part of the driver seat back	—	*M56D Seat Recline Motor - Driver*
M56P	Seat Recline Motor – Passenger	—	In the passenger compartment, part of the passenger seat back	—	*M56P Seat Recline Motor - Passenger*
M60A	Active Grille Air Shutter 1 Motor Module	IK9	Outside the vehicle, near the left front corner of the vehicle, behind the fascia	—	*M60A Active Grille Air Shutter 1 Motor Module (IK9)*
M60B	Active Grille Air Shutter 2 Motor Module	IK9	Outside the vehicle, near the right front corner of the vehicle, behind the fascia	—	*M60B Active Grille Air Shutter 2 Motor Module (IK9)*
M64	Starter Motor	—	In the engine compartment, lower right rear of the engine	—	• *M64 Starter Motor X1* • *M64 Starter Motor X2*
M65	Steering Column Telescope Motor	N38	In the passenger compartment, forward, left of center, on the steering column	—	—
M68	Steering Column Tilt Motor	N38	In the passenger compartment, forward, left of center, on the steering column	—	—
M69	Sunroof Motor	CF5	In the passenger compartment, overhead, in the center of the headliner	—	*M69 Sunroof Motor (CF5)*
M74D	Window Motor – Driver	—	In the passenger compartment, behind the driver door trim panel, at the center of the door	*Driver Door Components*	*M74D Window Motor - Driver*

M74LR	Window Motor – Left Rear	—	In the passenger compartment, center of the left rear door, behind the door trim panel	*Left Rear Door Components*	*M74LR Window Motor - Left Rear*
M74P	Window Motor – Passenger	—	In the passenger compartment, behind the front passenger door trim panel, at the center of the door	*Passenger Door Components*	*M74P Window Motor - Passenger*
M74RR	Window Motor – Right Rear	—	In the passenger compartment, center of the right rear door, behind the door trim panel	*Right Rear Door Components*	*M74RR Window Motor - Right Rear*
M75	Windshield Wiper Motor	—	At the left rear of the engine compartment, near the windshield	*Left Side of Engine Compartment Component View*	*M75 Windshield Wiper Motor*
M77D	Outside Rearview Mirror Motor – Driver	—	Outside of the vehicle, left side, forward on the driver door, inside the outside rear view mirror	—	• *M77D Outside Rearview Mirror Motor – Driver (without A45)* • *M77D Outside Rearview Mirror Motor – Driver (A45)*
M77P	Outside Rearview Mirror Motor – Passenger	—	Outside of the vehicle, right side, forward on the passenger door, inside the outside rear view mirror	—	• *M77P Outside Rearview Mirror Motor – Passenger (without A45)* • *M77P Outside Rearview Mirror Motor - Passenger (A45)*
M78D	Outside Rearview Mirror Folding Motor – Driver	DL3 or DR4	Outside of the vehicle, left side, forward on the driver door, inside the outside rear view mirror	—	*M78D Outside Rearview Mirror Folding Motor - Driver (DL3 or DR4)*
M78P	Outside Rearview Mirror Folding Motor – Passenger	DL3 or DR4	Outside of the vehicle, right side, forward on the passenger door, inside the outside rear view mirror	—	*M78P Outside Rearview Mirror Folding Motor - Passenger (DL3 or DR4)*
M91	Instrument Panel Compartment Door Unlatch Actuator	Z75	In the passenger compartment, forward, left side, inside the instrument panel near the glove box	—	*M91 Instrument Panel Compartment Door Unlatch Actuator (Z75)*
M95L	Assist Step – Left	BRS	Under the vehicle, along the left frame rail, under the driver door	*Chassis Components View*	*M95L Assist Step - Left (BRS)*
M95R	Assist Step – Right	BRS	Under the vehicle, along the right frame rail, under the passenger door	*Chassis Components View*	*M95R Assist Step - Right (BRS)*
M101L	Seat Belt Retractor Motor Module – Left	AX7	In the passenger compartment, left side, at the base of the B-Pillar	*Left Front of Passenger Compartment Views (Z75)*	*M101L Seat Belt Retractor Motor Module - Left (AX7)*
M101R	Seat Belt Retractor Motor Module – Right	AX7	In the passenger compartment, right side, at the base of the B-Pillar	—	*M101R Seat Belt Retractor Motor Module - Right (AX7)*
M107LR	Folding Seat Motor — 2nd Row Left	ATN or ATT	In the passenger compartment, left side, under 2nd row seat cushion	*2nd Row Bench Seat Cushions Bottom Component Views*	*M107LR Folding Seat Motor - 2nd Row Left (ATN or ATT)*
M107RR	Folding Seat Motor — 2nd Row Right	ATN or ATT	In the passenger compartment, right side, under 2nd row seat cushion	*2nd Row Bench Seat Cushions Bottom Component Views*	*M107RR Folding Seat Motor - 2nd Row Right (ATN or ATT)*
M108LR	Folding Seat Motor — 3rd Row Left	AS8	In the passenger compartment, left side, at the bottom of the 3rd row seat back	*3rd Row Seat Back Component Views*	*M108LR Folding Seat Motor - 3rd Row Left (AS8)*
M108RR	Folding Seat Motor — 3rd Row Right	AS8	In the passenger compartment, right side, at the bottom of the 3rd row seat back	*3rd Row Seat Back Component Views*	*M108RR Folding Seat Motor - 3rd Row Right (AS8)*
M109LR	Folding Seat Back Unlatch Motor — 3rd Row Left	AS8	In the passenger compartment, left side, at the middle of the 3rd row seat back	*3rd Row Seat Back Component Views*	*M109LR Folding Seat Back Unlatch Motor - 3rd Row Left (AS8)*
M109RR	Folding Seat Back Unlatch Motor — 3rd Row Right	AS8	In the passenger compartment, right side, at the middle of the 3rd row seat back	*3rd Row Seat Back Component Views*	*M109RR Folding Seat Back Unlatch Motor - 3rd Row Right (AS8)*

P7	Display	—	In the passenger compartment, forward, center, part of the P17 info display module	—	—
P9	Driver Information Center Display	—	In the passenger compartment, forward, left of center, part of the instrument cluster in the instrument panel	—	—
P12	Horn	—	In the engine compartment, lower left corner of the radiator support	*Cooling Fans*	*P12 Horn*
P14	Passenger Air Bag Disabled Indicator	—	In the passenger compartment, forward, overhead, in the center of the overhead console	*Overhead Console Components*	*P14 Passenger Air Bag Disabled Indicator*
P16	Instrument Cluster	—	In the passenger compartment, at the top of the driver side of the instrument panel, above the steering column	• *Front of Instrument Panel Components (X88/Z88 with D07)* • *Front of Instrument Panel Components (X88/Z88 without D07)* • *Front of Instrument Panel Components (Z75)*	• *P16 Instrument Cluster X1* • *P16 Instrument Cluster X2 (UV6 without Z75)* • *P16 Instrument Cluster X2 (UV6 with Z75)*
P17	Info Display Module	—	In the passenger compartment, at the top center of the instrument panel, above the radio controls	• *Front of Instrument Panel Components (X88/Z88 with D07)* • *Front of Instrument Panel Components (X88/Z88 without D07)* • *Front of Instrument Panel Components (Z75)*	• *P17 Info Display Module X1 (X88 or Z88)* • *P17 Info Display Module X1 (Z75)* • *P17 Info Display Module X2* • *P17 Info Display Module X3 (IO3)* • *P17 Info Display Module X3 (IO5 or IO6 without U42 or Z75)* • *P17 Info Display Module X3 (IO5 or IO6 with U42, without Z75)* • *P17 Info Display Module X3 (IO6 with Z75)*
P19AC	Speaker – Subwoofer	UQA, UQH or UQS	In the passenger compartment, forward of center, under the floor console, near the instrument panel	*Front Center of The Passenger Compartment Components*	*P19AC Speaker - Subwoofer (UQA, UQH or UQS)*
P19AG	Speaker – Left Front Door	—	In the passenger compartment, at the front of the left front door, behind the door trim panel	*Driver Door Components*	*P19AG Speaker - Left Front Door*
P19AH	Speaker – Right Front Door	—	In the passenger compartment, at the front of the right front door, behind the door trim panel	*Passenger Door Components*	*P19AH Speaker - Right Front Door*
P19AL	Speaker – Left Rear Door	—	In the passenger compartment, in the lower left rear door, behind the door panel	*Left Rear Door Components*	*P19AL Speaker - Left Rear Door*
P19AM	Speaker – Right Rear Door	—	In the passenger compartment, in the lower right rear door, behind the door panel	*Right Rear Door Components*	*P19AM Speaker - Right Rear Door*
P19AN	Speaker – Left Rear Trim Panel	UQA, UQH or UQS	In the rear compartment, at the back, left side at the top of the D-Pillar	*Left Rear Cargo Area Components*	*P19AN Speaker - Left Rear Trim Panel (UQA, UQH or UQS)*
P19AP	Speaker – Right Rear Trim Panel	UQA, UQH or UQS	In the rear compartment, at the back, right side at the top of the D-Pillar	*Right Rear Cargo Area Components*	*P19AP Speaker - Right Rear Trim Panel (UQA, UQH or UQS)*
P19B	Speaker – Center Instrument Panel	UQH or UQS	In the passenger compartment, center of the instrument panel	*Back of Instrument Panel Components (X88/Z88 with D07)*	*P19B Speaker - Center Instrument Panel (UQH or UQS)*
P19DD	Speaker – Left Front Door Woofer	UQH	In the passenger compartment, at the front of the left front door, behind the door trim panel	—	*P19DD Speaker - Left Front Door Woofer (UQH)*

P19HD	Speaker – Left Front Door Tweeter	UQH	In the passenger compartment, at the front of the left front door, behind the door trim panel	*Driver Door Components*	*P19HD Speaker - Left Front Door Tweeter (UQH)*
P19J	Speaker – Left Instrument Panel	—	In the passenger compartment, in the upper left of the instrument panel	• *Front of Instrument Panel Components (X88/Z88 without D07)* • *Back of Instrument Panel Components (Z75)*	• *P19J Speaker - Left Instrument Panel (except UQG)* • *P19J Speaker - Left Instrument Panel (UQG)*
P19M	Speaker – Left Rear Tweeter	UQH	In the passenger compartment, in the upper left rear door, behind the door panel	*Left Rear Door Components*	*P19M Speaker - Left Rear Tweeter (UQH)*
P19PD	Speaker – Right Front Door Woofer	UQH	In the passenger compartment, at the front of the right front door, behind the door trim panel	—	*P19PD Speaker - Right Front Door Woofer (UQH)*
P19VD	Speaker – Right Front Door Tweeter	UQH	In the passenger compartment, at the front of the right front door, behind the door trim panel	*Passenger Door Components*	*P19VD Speaker - Right Front Door Tweeter (UQH)*
P19W	Speaker – Right Instrument Panel	—	In the passenger compartment, in the upper right of the instrument panel	• *Front of Instrument Panel Components (X88/Z88 without D07)* • *Back of Instrument Panel Components (Z75)*	• *P19W Speaker - Right Instrument Panel (except UQG)* • *P19W Speaker - Right Instrument Panel (UQG)*
P19Z	Speaker – Right Rear Tweeter	UQH	In the passenger compartment, in the upper right rear door, behind the door panel	*Right Rear Door Components*	*P19Z Speaker - Right Rear Tweeter*
P22A	Video Display – 2nd Row	U42	In the passenger compartment, in the headliner between the front and second row seating	*Headliner Components*	• *P22A Video Display - 2nd Row X1 (U42)* • *P22A Video Display - 2nd Row X2 (U42)*
P22B	Video Display – 3rd Row	DNU	In the passenger compartment, in the headliner between the second and third row seating	*Headliner Components*	• *P22B Video Display - 3rd Row X1 (DNU)* • *P22B Video Display - 3rd Row X2 (DNU)*
P25	Power Sounder Content Theft Deterrent Alarm Module	UTT	In the engine compartment, rear, near the windshield wiper motor.	—	*P25 Power Sounder Content Theft Deterrent Alarm Module (UTT)*
P29	Head-Up Display	UV6	In the passenger compartment, forward left, in the instrument panel on the top, forward of the gauge cluster	• *Front of Instrument Panel Components (X88/Z88 with D07)* • *Front of Instrument Panel Components (X88/Z88 without D07)* • *Front of Instrument Panel Components (Z75)*	• *P29 Heads-Up Display X1 (UV6)* • *P29 Heads Up Display X2 (UV6)*
P34D	Side Object Detection Indicator — Driver	UKC	At the front of the Left front door, part of the Outside Rearview Mirror, part of the mirror glass	—	—
P34P	Side Object Detection Indicator — Passenger	UKC	At the front of the Right front door, part of the Outside Rearview Mirror, part of the mirror glass	—	—
P43	Collision Alert Indicators	UEU or UFL without UV6	In the passenger compartment, behind the upper left of the instrument panel, above the instrument cluster	*Back of Instrument Panel Components (X88/Z88 without D07)*	*P43 Collision Alert Indicators (UEU or UFL without UV6)*
P45LR	Seat Haptic Movement Motor – Driver Left Rear	UEU, UFL or UGN	In the passenger compartment, part of the driver seat cushion	*Left Front of Driver Seat Component Views*	*P45LR Seat Haptic Movement Motor - Driver Left Rear (UEU, UFL or UGN)*

P45RR	Seat Haptic Movement Motor – Driver Right Rear	UEU, UFL or UGN	In the passenger compartment, part of the driver seat cushion	*Left Front of Driver Seat Component Views*	*P45RR Seat Haptic Movement Motor - Driver Right Rear (UEU, UFL or UGN)*
Q2	A/C Compressor Clutch	—	In the engine compartment, right of center, on the right front of the engine, at the bottom.	—	*Q2 A/C Compressor Clutch*
Q4	Vehicle Level Control Solenoid Valve	Z85 or Z95	Underside of vehicle, at the rear, part of the air suspension compressor	—	—
Q5	Brake Pressure Modulator	—	In the engine compartment, left rear, part of the Brake Control Module	—	—
Q6	Camshaft Position Actuator Solenoid Valve	—	In the engine compartment, at the front right side of the engine	*Front of Engine Components*	*Q6 Camshaft Position Actuator Solenoid Valve*
Q8	Control Solenoid Valve Assembly	MYC	Underside of the vehicle, forward of middle, internal to the transmission	*Automatic Transmission Components (MYC)*	• *Q8 Control Solenoid Valve Assembly X1 (MYC)* • *Q8 Control Solenoid Valve Assembly X2 (MYC)* • *Q8 Control Solenoid Valve Assembly X3 (MYC)*
Q12	Evaporative Emission Purge Solenoid Valve	—	In the engine compartment, forward of center, top and front of the engine just left of the throttle body	*Left Side of Engine Components (L83 or L86)*	*Q12 Evaporative Emission Purge Solenoid Valve*
Q13	Evaporative Emission Vent Solenoid Valve	—	Underneath the vehicle, just left of center, at the rear of the vehicle, attached to the front facing side of the rear most chassis cross member, above the spare tire	*Chassis Components View*	*Q13 Evaporative Emission Vent Solenoid Valve*
Q17A	Fuel Injector 1	—	In the engine compartment, top of the engine, attached to the fuel rail, above cylinder 1	—	*Q17A Fuel Injector 1*
Q17B	Fuel Injector 2	—	In the engine compartment, top of the engine, attached to the fuel rail, above cylinder 2	*Top Right Side of Engine Components (L83/L86)*	*Q17B Fuel Injector 2*
Q17C	Fuel Injector 3	—	In the engine compartment, top of the engine, attached to the fuel rail, above cylinder 3	—	*Q17C Fuel Injector 3*
Q17D	Fuel Injector 4	—	In the engine compartment, top of the engine, attached to the fuel rail, above cylinder 4	*Top Right Side of Engine Components (L83/L86)*	*Q17D Fuel Injector 4*
Q17E	Fuel Injector 5	—	In the engine compartment, top of the engine, attached to the fuel rail, above cylinder 5	—	*Q17E Fuel Injector 5*
Q17F	Fuel Injector 6	—	In the engine compartment, top of the engine, attached to the fuel rail, above cylinder 6	*Top Right Side of Engine Components (L83/L86)*	*Q17F Fuel Injector 6*
Q17G	Fuel Injector 7	—	In the engine compartment, top of the engine, attached to the fuel rail, above cylinder 7	—	*Q17G Fuel Injector 7*
Q17H	Fuel Injector 8	—	In the engine compartment, top of the engine, attached to the fuel rail, above cylinder 8	*Top Right Side of Engine Components (L83/L86)*	*Q17H Fuel Injector 8*
Q27A	Pressure Control Solenoid Valve 1	MYC	Underside of the vehicle, forward of middle, internal to the transmission, part of the control solenoid	—	—
Q27B	Pressure Control Solenoid Valve 2	MYC	Underside of the vehicle, forward of middle, internal to the transmission, part of the control solenoid	—	—

Q27C	Pressure Control Solenoid Valve 3	MYC	Underside of the vehicle, forward of middle, internal to the transmission, part of the control solenoid	—	—
Q27D	Pressure Control Solenoid Valve 4	MYC	Underside of the vehicle, forward of middle, internal to the transmission, part of the control solenoid	—	—
Q27E	Pressure Control Solenoid Valve 5	MYC	Underside of the vehicle, forward of middle, internal to the transmission, part of the control solenoid	—	—
Q32A	Shift Solenoid Valve 1	MYC	Underside of the vehicle, forward of middle, internal to the transmission, part of the control solenoid	—	—
Q32B	Shift Solenoid Valve 2	MYC	Underside of the vehicle, forward of middle, internal to the transmission, part of the control solenoid	—	—
Q37LF	Shock Absorber Actuator — Left Front	Z95	Outside the vehicle, at the left front corner, near the top of the strut	—	*Q37LF Shock Absorber Actuator - Left Front (Z95)*
Q37LR	Shock Absorber Actuator — Left Rear	Z95	Outside the vehicle, at the left front corner, near the top of the shock	*Chassis Components View*	*Q37LR Shock Absorber Actuator - Left Rear (Z95)*
Q37RF	Shock Absorber Actuator — Right Front	Z95	Outside the vehicle, at the left front corner, near the top of the strut	—	*Q37RF Shock Absorber Actuator - Right Front (Z95)*
Q37RR	Shock Absorber Actuator — Right Rear	Z95	Outside the vehicle, at the left front corner, near the top of the shock	*Chassis Components View*	*Q37RR Shock Absorber Actuator - Right Rear (Z95)*
Q38	Throttle Body	—	In the engine compartment, forward of center, at the top front of the engine	—	*Q38 Throttle Body*
Q39A	Torque Converter Clutch Pressure Control Solenoid Valve	MYC	Underside of the vehicle, forward of middle, internal to the transmission, part of the control solenoid	—	—
Q43	Valve Lifter Oil Manifold Assembly	—	In the engine compartment, mounted in the valve lifter valley below the intake manifold	*Left Side of Engine Components (L83 or L86)*	*Q43 Valve Lifter Oil Manifold Assembly*
Q44	Engine Oil Pressure Control Solenoid Valve	—	In the engine compartment, at the front of the engine, right of the cam actuator	*Front of Engine Components*	*Q44 Engine Oil Pressure Control Solenoid Valve*
Q46	A/C Compressor Solenoid Valve	—	In the front of the engine compartment, part of the compressor assembly	—	*Q46 A/C Compressor Solenoid Valve*
Q54D	Seat Massage Valve Assembly — Driver	ULT	In the passenger compartment, inside driver seat cushion	—	*Q54D Seat Massage Valve Assembly - Driver (ULT)*
Q54P	Seat Massage Valve Assembly — Passenger	ULT	In the passenger compartment, inside passenger seat cushion	—	*Q54P Seat Massage Valve Assembly - Passenger (ULT)*
Q77A	Transmission Control Solenoid Valve 1	M5U	Underside of the vehicle, forward of middle, internal to the transmission	—	—
Q77B	Transmission Control Solenoid Valve 2	M5U	Underside of the vehicle, forward of middle, internal to the transmission	—	—
Q77C	Transmission Control Solenoid Valve 3	M5U	Underside of the vehicle, forward of middle, internal to the transmission	—	—
Q77D	Transmission Control Solenoid Valve 4	M5U	Underside of the vehicle, forward of middle, internal to the transmission	—	—

Q77E	Transmission Control Solenoid Valve 5	M5U	Underside of the vehicle, forward of middle, internal to the transmission	—	—
Q77F	Transmission Control Solenoid Valve 6	M5U	Underside of the vehicle, forward of middle, internal to the transmission	—	—
Q77G	Transmission Control Solenoid Valve 7	M5U	Underside of the vehicle, forward of middle, internal to the transmission	—	—
Q77H	Transmission Control Solenoid Valve 8	M5U	Underside of the vehicle, forward of middle, internal to the transmission	—	—
Q77J	Transmission Control Solenoid Valve 9	M5U	Underside of the vehicle, forward of middle, internal to the transmission	—	—
R6A	Terminating Resistor — High Speed Bus	without J71, JL1, Z85 or Z95	Underneath the vehicle, at the rear, along the inside of the right frame rail, forward facing side of the rear most cross member, taped in the harness near the chassis control module	*Chassis Components View*	*R6A Terminating Resistor - High Speed Bus (without J71, JL1, Z85 or Z95)*
S2A	Transmission Manual Shift Switch — Up/Down	KB7	In the passenger compartment, part of the transmission shift lever	*Steering Column Components (2 of 2)*	—
S3	Transmission Shift Lever	—	In the passenger compartment, forward, left of center, on the right side of the steering column	*Steering Column Components (2 of 2)*	*S3 Transmission Shift Lever*
S5	Center Console Compartment Lamp Switch	—	In the passenger compartment, under the center console compartment lid	*Center Console Top Component Views (Z75)*	*S5 Center Console Compartment Lamp Switch*
S12	Dome Lamp Switch	—	In the passenger compartment, overhead, forward of center, in the overhead console	*Overhead Console Components*	*S12 Dome Lamp Switch*
S13D	Door Lock Switch – Driver	—	In the passenger compartment, in the driver door handle trim panel	*Driver Door Components*	● *S13D Door Lock Switch - Driver (X88 or Z88)* ● *S13D Door Lock Switch - Driver (Z75)*
S13P	Door Lock Switch – Passenger	—	In the passenger compartment, in the passenger door handle trim panel	*Passenger Door Components*	● *S13P Door Lock Switch - Passenger (X88 or Z88)* ● *S13P Door Lock Switch - Passenger (Z75)*
S25	Garage Door Opener	UG1	In the passenger compartment, overhead, forward of center, in the overhead console	*Overhead Console Components*	*S25 Garage Door Opener (UG1)*
S27	Head-Up Display Switch	UV6	In the passenger compartment, forward, left side, on the instrument panel, left of the instrument cluster	● *Front of Instrument Panel Components (X88/Z88 with D07)* ● *Front of Instrument Panel Components (Z75)*	*S27 Head-Up Display Switch (UV6)*
S30	Headlamp Switch	—	In the passenger compartment, forward, left side, on the instrument panel left of the steering column	● *Front of Instrument Panel Components (X88/Z88 with D07)* ● *Front of Instrument Panel Components (X88/Z88 without D07)* ● *Front of Instrument Panel Components (Z75)*	*S30 Headlamp Switch*
S31D	Seat Heating and Cooling Switch – Driver	KA1 or KB6	In the passenger compartment, forward, on the instrument panel, on driver side of the HVAC controls	*Center Console Top Component Views (X88/Z88)*	*S31D Seat Heating and Cooling Switch - Driver (KA1 or KB6)*

S31P	Seat Heating and Cooling Switch – Passenger	KA1 or KB6	In the passenger compartment, forward, on the instrument panel, on passenger side of the HVAC controls	*Center Console Top Component Views (X88/Z88)*	*S31P Seat Heating and Cooling Switch - Passenger (KA1 or KB6)*
S33	Horn Switch	—	In the passenger compartment, in the center of the steering wheel, behind the driver side air bag	—	—
S38	Ignition Mode Switch	BTM	In the passenger compartment, forward, left of center, in the instrument panel, right of steering column	• *Front of Instrument Panel Components (X88/Z88 with D07)* • *Front of Instrument Panel Components (Z75)*	*S38 Ignition Mode Switch (BTM)*
S39	Ignition Switch	without BTM	In the passenger compartment, forward, behind the steering wheel, on the right side of the steering column	—	*S39 Ignition Switch (without BTM)*
S43	Theft Deterrent Sensor Disable Switch	UTT	In the passenger compartment, overhead, forward of center, in the overhead console	*Overhead Console Components*	*S43 Theft Deterrent Sensor Disable Switch (UTT)*
S45B	Liftgate Control Switch – Interior	TB5	In the passenger compartment, overhead, forward of center, in the overhead console	*Overhead Console Components*	*S45B Liftgate Control Switch - Interior (TB5)*
S46	Liftgate Handle Switch	TB5	In the rear compartment, rear, right of center, in the liftgate, at the bottom	*Liftgate Components*	*S46 Liftgate Handle Switch (TB5)*
S46B	Liftgate Unlatch Switch	TB4	At the rear of the vehicle, in the liftgate	—	*S46B Liftgate Unlatch Switch (TB4)*
S47D	Seat Memory Switch – Driver	A45	In the passenger compartment, on the driver door panel below the driver door arm rest	*Driver Door Components*	*S47D Seat Memory Switch - Driver (A45)*
S48A	Multifunction Switch – Instrument Panel	X88 or Z88	In the passenger compartment, left side of the instrument panel, left of steering column	• *Front of Instrument Panel Components (X88/Z88 with D07)* • *Front of Instrument Panel Components (X88/Z88 without D07)*	*S48A Multifunction Switch - Instrument Panel (X88 or Z88)*
S48C	Multifunction Switch 1 – Instrument Panel	Z75	In the passenger compartment, near the center of the instrument panel, left of P17	*Front of Instrument Panel Components (Z75)*	*S48C Multifunction Switch 1 - Instrument Panel (Z75)*
S48D	Multifunction Switch 2 – Instrument Panel	Z75	In the passenger compartment, near the center of the instrument panel, right of P17	*Front of Instrument Panel Components (Z75)*	*S48D Multifunction Switch 2 - Instrument Panel (Z75)*
S51	Telematics Button Assembly	UE1	In the passenger compartment, forward, overhead, part of the rearview mirror at the bottom	*Overhead Console Components*	—
S52	Outside Rearview Mirror Switch	—	In the passenger compartment, forward of center, left side, on the driver door trim panel	*Driver Door Components*	• *S52 Outside Rearview Mirror Switch (A45 with Z75)* • *S52 Outside Rearview Mirror Switch (A45 without Z75)* • *S52 Outside Rearview Mirror Switch (except A45)*
S63	Roof Beacon Switch	TRW	In the passenger compartment, overhead, behind the overhead console, near the top	—	*S63 Roof Beacon Switch (TRW)*
S64D	Seat Adjuster Switch – Driver	—	In the passenger compartment, mounted to the outboard side of the driver seat cushion	*Left Front of Driver Seat Component Views*	• *S64D Seat Adjuster Switch - Driver X1* • *S64D Seat Adjuster Switch - Driver X2*

S64P	Seat Adjuster Switch – Passenger	—	In the passenger compartment, mounted to the outboard side of the passenger seat cushion	*Passenger Seat Components View*	- *S64P Seat Adjuster Switch - Passenger X1* - *S64P Seat Adjuster Switch - Passenger X2*
S70E	Steering Wheel Controls Switch – Radio Presets	X88 or Z88 with UK3	In the passenger compartment, on the left rear side of the steering wheel	—	*S70E Steering Wheel Controls Switch - Radio Presets*
S70F	Steering Wheel Controls Switch – Radio Volume	X88 or Z88 with UK3	In the passenger compartment, on the right rear side of the steering wheel	—	*S70F Steering Wheel Controls Switch - Radio Volume*
S70L	Steering Wheel Controls Switch – Left	—	In the passenger compartment, on the left side of the steering wheel	*Steering Wheel Components (Z75)*	- *S70L Steering Wheel Controls Switch - Left (X88 or Z88)* - *S70L Steering Wheel Controls Switch - Left (Z75)*
S70R	Steering Wheel Controls Switch – Right	—	In the passenger compartment, on the right side of the steering wheel	*Steering Wheel Components (Z75)*	- *S70R Steering Wheel Controls Switch - Right (X88 or Z88)* - *S70R Steering Wheel Controls Switch - Right (Z75)*
S71	Steering Column Tilt and Telescope Switch	N38	In the passenger compartment, forward, left side, on the steering column	—	—
S72	Sunroof Switch	CF5	In the passenger compartment, overhead, forward of center, in the overhead console	*Overhead Console Components*	*S72 Sunroof Switch (CF5)*
S74	Tow/Haul Mode Switch	—	In the passenger compartment, part of the transmission shift lever	—	—
S76	Trailer Brake Control Switch	JL1	In the passenger compartment, forward, left side, on instrument panel, left of steering column	- *Front of Instrument Panel Components (X88/Z88 with D07)* - *Front of Instrument Panel Components (X88/Z88 without D07)*	*S76 Trailer Brake Control Switch (JL1)*
S77	Transfer Case Shift Control Switch	NP0 or NQH	In the passenger compartment, forward, left side, on instrument panel, left of steering column	- *Front of Instrument Panel Components (X88/Z88 with D07)* - *Front of Instrument Panel Components (X88/Z88 without D07)*	*S77 Transfer Case Shift Control Switch (NP0 or NQH)*
S78	Turn Signal/Multifunction Switch	—	In the passenger compartment, forward, left side, on the left side of the steering column	*Steering Column Components (2 of 2)*	- *S78 Turn Signal Multifunction Switch X1* - *S78 Turn Signal Multifunction Switch X2* - *S78 Turn Signal / Multifunction Switch X3*
S79D	Window Switch – Driver	—	In the passenger compartment, behind the driver door trim panel, center of the door	*Driver Door Components*	*S79D Window Switch - Driver*
S79LR	Window Switch – Left Rear	—	In the passenger compartment, at the center of the left rear door, on the door trim panel	*Left Rear Door Components*	*S79LR Window Switch - Left Rear*
S79P	Window Switch – Passenger	—	In the passenger compartment, on the passenger door trim panel, center of the door	*Passenger Door Components*	- *S79P Window Switch - Passenger (A45)* - *S79P Window Switch - Passenger (except A45)*

S79RR	Window Switch – Right Rear	—	In the passenger compartment, on the right rear door trim panel, center of the door	*Right Rear Door Components*	*S79RR Window Switch - Right Rear*
S91	Park Brake Control Switch	J71	In the passenger compartment, forward, left side, on the instrument panel underneath the headlamp switch	*Front of Instrument Panel Components (Z75)*	*S91 Park Brake Control Switch (J71)*
S98D	Seat Massage Switch — Driver	ULT	In the passenger compartment, forward of middle, left side, on the outboard side trim of the driver seat cushion	—	*S98D Seat Massage Switch - Driver (ULT)*
S98P	Seat Massage Switch — Passenger	ULT	In the passenger compartment, forward of middle, right side, on the outboard side trim of the passenger seat cushion	—	*S98P Seat Massage Switch - Passenger (ULT)*
S135	Rollover Protection Disable Switch	C9I	In the passenger compartment, forward, center, in instrument panel	—	*S135 Rollover Protection Disable Switch (9CI)*
S140	Media Disc Eject Switch	Z75	In the passenger compartment, forward and center, on the face of the instrument panel center stack below the radio/HVAC controls	*Front of Instrument Panel Components (Z75)*	*S140 Media Disc Eject Switch (Z75)*
S141	Liftgate Window Unlatch Switch	—	At the rear of the vehicle, in the liftgate, center, near the top of the license plate mount	• *Rear of Vehicle Components (X88)* • *Rear of Vehicle Components (Z88)* • *Rear of Vehicle Components (Z75)*	*S141 Liftgate Window Unlatch Switch*
S143L	Folding Seat Control Switch — 2nd Row Left	ATN or ATT	In the passenger compartment, rearward of center, left side, on C-Pillar trim	—	*S143L Folding Seat Control Switch - 2nd Row Left (ATN or ATT)*
S143R	Folding Seat Control Switch — 2nd Row Right	ATN or ATT	In the passenger compartment, rearward of center, right side, on C-Pillar trim	—	*S143R Folding Seat Control Switch - 2nd Row Right (AT or ATT)*
S144A	Folding Seat Control Switch — Rear Compartment 2nd Row	ATN or ATT	In the rear compartment, right side, in the trim under the quarter window glass	—	*S144A Folding Seat Control Switch - Rear Compartment 2nd Row (ATN or ATT)*
S144B	Folding Seat Control Switch — Rear Compartment 3rd Row	AS8	In the rear compartment, right side, in the trim under the quarter window glass	—	*S144B Folding Seat Control Switch - Rear Compartment 3rd Row (AS8)*
S145	Center Console Compartment Cooler Switch	DCK	In the passenger compartment, forward of center, in floor console between the driver and passenger seat	*Center Console Top Component Views (X88/Z88)*	*S145 Center Console Compartment Cooler Switch (DCK)*
T1	Accessory DC/AC Power Inverter Module	KI4 or KI5	In the passenger compartment, forward, left side, Inside the instrument panel, right side of the steering column	• *Back of Instrument Panel Components (X88/Z88 with D07)* • *Back of Instrument Panel Components (X88/Z88 without D07)* • *Back of Instrument Panel Components (Z75)*	*T1 Accessory DC/AC Power Inverter Module (KI4 or KI5)*
T3	Audio Amplifier	UQA, UQH or UQS	In the rear passenger compartment, mounted behind the rear seat, below the rear window	*Left Rear Cargo Area Components*	• *T3 Audio Amplifier X1 (UQA, UQH or UQS)* • *T3 Audio Amplifier X2 (UQA, UQH or UQS)* • *T3 Audio Amplifier X3 (UQA, UQH or UQS)* • *T3 Audio Amplifier X4 (UQA, UQH or UQS)*

T4G	Cellular Phone, Navigation, and Digital Radio Antenna	—	Outside of the vehicle, on the roof, left front, near windshield	● *Front of Vehicle Components (X88)* ● *Front of Vehicle Components (Z75)*	● *T4G Cellular Phone, Navigation, and Digital Radio Antenna X1 (IO6 with UE1 without CV3)* ● *T4G Cellular Phone, Navigation, and Digital Radio Antenna X3 (IO6 without UE1)* ● *T4G Cellular Phone, Navigation, and Digital Radio Antenna X3 (CV3 with UE1)* ● *T4G Cellular Phone, Navigation, and Digital Radio Antenna X4 (U2M)* ● *T4G Cellular Phone, Navigation, and Digital Radio Antenna X5 (VV4)*
T4M	Radio Antenna	—	In the rear compartment, right side, top of the right rear quarter glass	—	—
T4S	Wireless Communication Antenna — Bluetooth	UPF	In the passenger compartment, center of the instrument panel, behind the radio, attached to the K73 Telematics Communication Interface Control Module	—	—
T7L	Headlamp Ballast – Left	T4F	Outside the vehicle, left front corner, inside the headlamp	—	● *T7L Headlamp Ballast - Left X1 (T4F)* ● *T7L Headlamp Ballast - Left X2 (T4F)*
T7R	Headlamp Ballast – Right	T4F	Outside the vehicle, right front corner, inside the headlamp	—	● *T7R Headlamp Ballast - Right X1 (T4F)* ● *T7R Headlamp Ballast - Right X2 (T4F)*
T8A	Ignition Coil 1	—	In the engine compartment, at the top front, left side of the engine, near cylinder 1	*Top of Engine Components*	*T8A Ignition Coil 1*
T8B	Ignition Coil 2	—	In the engine compartment, at the top front, right side of the engine, near cylinder 2	*Top of Engine Components*	*T8B Ignition Coil 2*
T8C	Ignition Coil 3	—	In the engine compartment, at the top forward of middle, left side of the engine, near cylinder 3	*Top of Engine Components*	*T8C Ignition Coil 3*
T8D	Ignition Coil 4	—	In the engine compartment, at the top forward of middle, right side of the engine, near cylinder 4	*Top of Engine Components*	*T8D Ignition Coil 4*
T8E	Ignition Coil 5	—	In the engine compartment, at the top rear of middle, left side of the engine, near cylinder 5	*Top of Engine Components*	*T8E Ignition Coil 5*
T8F	Ignition Coil 6	—	In the engine compartment, at the top rear of middle, right side the engine, near cylinder 6	*Top of Engine Components*	*T8F Ignition Coil 6*
T8G	Ignition Coil 7	—	In the engine compartment, at the top rear, left side of the engine, near cylinder 7	*Top of Engine Components*	*T8G Ignition Coil 7*
T8H	Ignition Coil 8	—	In the engine compartment, at the top rear, right side of the engine, near cylinder 8	*Top of Engine Components*	*T8H Ignition Coil 8*
T10E	Keyless Entry Antenna — Rear Compartment	ATH or BTM	In the passenger compartment, towards the rear, left of center, just rearward of the C-pillar, on the floor	—	*T10E Keyless Entry Antenna - Rear Compartment (ATH with BTM)*

T10G	Keyless Entry Antenna — Rear Fascia	ATH or BTM	At the rear of the vehicle, left of center, behind the rear fascia	*Behind Rear Fascia Components*	*T10G Keyless Entry Antenna - Rear Fascia (ATH with BTM)*
T10J	Keyless Entry Antenna — Center Console Front	ATH or BTM	In the passenger compartment, front and center, in the instrument panel under the center stack info display	*Front of Instrument Panel Components (X88/Z88 with D07)*	*T10J Keyless Entry Antenna - Center Console Front (ATH with BTM)*
T10K	Keyless Entry Antenna — Center Console Rear	ATH or BTM	In the passenger compartment, front of center, at the back of the floor console near the auxiliary HVAC controls	• *Center Console Rear Component Views (X88/Z88)* • *Center Console Top Component Views (Z75)*	*T10K Keyless Entry Antenna - Center Console Rear (ATH with BTM)*
T10M	Keyless Entry Antenna — Driver Door Handle	ATH or BTM	Outside the vehicle, at the rear of the driver door, part of the door handle assembly	—	—
T10N	Keyless Entry Antenna — Passenger Door Handle	ATH or BTM	Outside the vehicle, at the rear of the passenger door, part of the door handle assembly	—	—
T15	Navigation Antenna Signal Splitter	IO6 with UE1	In the passenger compartment, on top of the instrument panel, under top cover, right of center, near windshield	*Back of Instrument Panel Components (Z75)*	• *T15 Navigation Antenna Signal Splitter X1 (IO6 with UE1)* • *T15 Navigation Antenna Signal Splitter X2 (IO6 with UE1)* • *T15 Navigation Antenna Signal Splitter X3 (IO6 with UE1)*
T22	Mobile Device Wireless Charger Module	K4C	In the passenger compartment, forward of center, in the floor console bin lid.	*Center Console Top Component Views (Z75)*	*T22 Mobile Device Wireless Charger Module (DCK)*
T23	Radio Antenna Amplifier	—	In the rear compartment, right side, above rear quarter glass, behind the headliner	—	• *T23 Radio Antenna Amplifier X1* • *T23 Radio Antenna Amplifier X4*
X50A	Fuse Block – Underhood	—	In the engine compartment, front left rear	*Left Side of Engine Compartment Component View*	• *X50A Fuse Block - Underhood X1* • *X50A Fuse Block - Underhood X2* • *X50A Fuse Block - Underhood X3* • *X50A Fuse Block - Underhood X4* • *X50A Fuse Block - Underhood X5*
X50D	Fuse Block – Battery	—	In the engine compartment, top right, on the battery	*Right Rear of Engine Compartment Components (2 of 2)*	*X50D Fuse Block - Battery X7*
X50E	Fuse Block – Battery Auxiliary	5W4 or 9C1	In the engine compartment, front left, on the auxiliary battery	*Left Side of Engine Compartment Component View*	—
X51L	Fuse Block – Instrument Panel Left	—	In the passenger compartment, left side of the instrument panel, behind access panel	*Left Front of Passenger Compartment Views (Z75)*	• *X51L Fuse Block - Instrument Panel Left X1* • *X51L Fuse Block - Instrument Panel Left X2* • *X51L Fuse Block - Instrument Panel Left X3*

X51R	Fuse Block – Instrument Panel Right	—	In the passenger compartment, right side of the instrument panel, behind access panel	—	• *X51R Fuse Block - Instrument Panel Right X1* • *X51R Fuse Block - Instrument Panel Right X2* • *X51R Fuse Block - Instrument Panel Right X3*
X53A	Fuse Block – Rear Body	—	In the rear compartment, left side, under the rear quarter glass, behind the access door in the rear compartment trim	—	*X53A Fuse Block - Rear Body (Wire Entry)*
X61A	Junction Block – Instrument Panel	—	In the passenger compartment, under the instrument panel, left of the brake pedal, on the floor	*Behind Left Side of Instrument Panel Components (1 of 2)*	• *X61A Junction Block - Instrument Panel X1* • *X61A Junction Block - Instrument Panel X2* • *X61A Junction Block - Instrument Panel X3* • *X61A Junction Block - Instrument Panel X4* • *X61A Junction Block - Instrument Panel X5* • *X61A Junction Block - Instrument Panel X7* • *X61A Junction Block - Instrument Panel X8* • *X61A Junction Block - Instrument Panel X9*
X80D	Accessory Power Receptacle – Center Console Compartment	D07	In the passenger compartment, between the driver and passenger seat, in the center floor console compartment	• *Center Console Top Component Views (X88/Z88)* • *Center Console Top Component Views (Z75)*	*X80D Accessory Power Receptacle - Center Console Compartment (D07)*
X80D	Accessory Power Receptacle – Center Console Compartment	AZ3	In the passenger compartment, between the driver and passenger seat, in the center seat console compartment	—	*X80D Accessory Power Receptacle - Center Console Compartment (AZ3)*
X80E	Accessory Power Receptacle – Center Seat	AZ3	In the passenger compartment, front of center, in the front center seat, at the rear of the center seat	—	*X80E Accessory Power Receptacle - Center Seat (AZ3)*
X80G	Accessory Power Receptacle – Instrument Panel	D07	In the passenger compartment, front and center, on top of the floor console, below the info display on the center stack	• *Center Console Top Component Views (X88/Z88)* • *Center Console Top Component Views (Z75)*	*X80G Accessory Power Receptacle - Instrument Panel (D07)*
X80G	Accessory Power Receptacle – Instrument Panel	AZ3	In the passenger compartment, front and center, in the instrument panel below the info display on the center stack	*Front of Instrument Panel Components (X88/Z88 without D07)*	*X80G Accessory Power Receptacle - Instrument Panel (AZ3)*
X80L	Accessory Power Receptacle – Center Console Rear	D07	In the passenger compartment, front of center, at the rear of the center console	• *Center Console Rear Component Views (X88/Z88)* • *Center Console Rear Component Views (Z75)*	*X80L Accessory Power Receptacle – Instrument Panel (D07)*

X80RL	Accessory Power Receptacle – Rear Compartment Left	—	In the passenger compartment, rear, left side, behind the C-Pillar in the molded in arm rest of the interior trim.	—	*X80RL Accessory Power Receptacle - Rear Compartment Left*
X80RR	Accessory Power Receptacle – Rear Compartment right	—	In the rear compartment, right side, in the molded trim underneath the rear quarter glass	—	*X80RR Accessory Power Receptacle - Rear Compartment Right*
X81	Accessory Power Receptacle – 110V AC	KI4 with AZ3	In the passenger compartment, forward of center, at the rear of the floor console	*Front of Instrument Panel Components (X88/Z88 without D07)*	• *X81 Accessory Power Receptacle - 110V AC X1 (KI4 with AZ3)* • *X81 Accessory Power Receptacle - 110V AC X2 (KI4 with AZ3)*
X81	Accessory Power Receptacle – 110V AC	KI4 with D07	In the passenger compartment, forward of center, at the rear of the floor console	• *Center Console Rear Component Views (X88/Z88)* • *Center Console Rear Component Views (Z75)*	• *X81 Accessory Power Receptacle - 110V AC X1 (KI4 with D07)* • *X81 Accessory Power Receptacle - 110V AC X2 (KI4 with D07)*
X81B	Accessory Power Receptacle – 220V AC	KI5 with AZ3	In the passenger compartment, forward of center, at the rear of the floor console	*Front of Instrument Panel Components (X88/Z88 without D07)*	• *X81B Accessory Power Receptacle - 220V AC X1 (KI5 with AZ3)* • *X81B Accessory Power Receptacle - 220V AC X2 (KI5 with AZ3)*
X81B	Accessory Power Receptacle – 220V AC	KI5 with D07	In the passenger compartment, forward of center, at the rear of the floor console	• *Center Console Rear Component Views (X88/Z88)* • *Center Console Rear Component Views (Z75)*	• *X81B Accessory Power Receptacle - 220V AC X1 (KI5 with D07)* • *X81B Accessory Power Receptacle - 220V AC X2 (KI5 with D07)*
X82	Audio/Video Input Adapter	U42 with D07	In the passenger compartment, forward of center, at the rear of the floor console	• *Center Console Rear Component Views (X88/Z88)* • *Center Console Rear Component Views (Z75)*	• *X82 Audio/Video Input Adapter (U42 with D07)* • *X82 Audio/Video Input Adapter (U42 with D07)*
X83	Auxiliary Audio Input	D07	In the passenger compartment, forward of center, in the floor console compartment	• *Center Console Internal Component Views (X88/Z88)* • *Center Console Top Component Views (Z75)*	• *X83 Auxiliary Audio Input X1* • *X83 Auxiliary Audio Input X2 (D07)*
X83	Auxiliary Audio Input	AZ3	In the passenger compartment, forward of center, in the center seat compartment	—	• *X83 Auxiliary Audio Input X1* • *X83 Auxiliary Audio Input X2 (AZ3)*
X84	Data Link Connector	—	In the passenger compartment, forward, left side, at the bottom of the driver side of the instrument panel	*Back of Instrument Panel Components (X88/Z88 with D07)*	*X84 Data Link Connector*
X85	Steering Wheel Air Bag Coil	—	In the passenger compartment, forward, left side, on the steering column, behind the steering wheel	*Steering Column Components (2 of 2)*	• *X85 Steering Wheel Air Bag Coil X1* • *X85 Steering Wheel Air Bag Coil X2* • *X85 Steering Wheel Air Bag Coil X3* • *X85 Steering Wheel Air Bag Coil X4 (UVD)* • *X85 Steering Wheel Air Bag Coil X5 (UVD)*
X88	Trailer Connector	without VQ9	On the vehicle exterior, at the rear of the vehicle, left of the license plate	*Rear of Vehicle Components (X88)*	*X88 Trailer Connector*

X92	USB Receptacle	D07 with IO5 or IO6	In the passenger compartment, forward of center, at the top of the floor console, below instrument panel center stack	• *Center Console Top Component Views (X88/Z88)* • *Center Console Top Component Views (Z75)*	• *X92 USB Receptacle X1 (D07 with IO5 or IO6)* • *X92 USB Receptacle X2 (D07 with IO5 or IO6)* • *X92 USB Receptacle X3 (D07 with IO5 or IO6)*
X92A	USB Receptacle — Instrument Panel Compartment	IO5 or IO6	In the passenger compartment, forward and center, in the instrument panel, behind the screen of the P17 Info Display	—	*X92A USB Receptacle - Instrument Panel Compartment (IO5 or IO6)*
X100	Front Bumper Harness to Forward Lamp Harness (16 Cavities)	X88 or Z88	At the front of the vehicle, right of center, on top of the core support	*Forward Lamp Harness Routing - Right Engine Compartment*	*X100 Forward Lamp Harness to Front Bumper Harness (X88 or Z88)*
X100	Front Bumper Harness to Forward Lamp Harness (40 Cavities)	Z75	At the front of the vehicle, right of center, on top of the core support	*Forward Lamp Harness Routing - Right Engine Compartment*	*X100 Forward Lamp Harness to Front Bumper Harness (Z75)*
X101	Front Bumper Harness to Left Multifunction Lamp Harness (8 Cavities)	Z75	At the front of the vehicle, left side, behind the front bumper	—	*X101 Front Bumper Harness to Left Multifunction Lamp Harness (Z75)*
X104	Front Bumper Harness to Right Multifunction Lamp Harness (8 Cavities)	Z75	At the front of the vehicle, right side, behind the front bumper	—	*X104 Front Bumper Harness to Right Multifunction Lamp Harness (Z75)*
X106	Aero Shutter Harness to Forward Lamp Harness (6 Cavities)	IK9	At the front of the vehicle, right of center, behind the front bumper	—	*X106 Aero Shutter Jumper Harness to Forward Lamp Harness (IK9)*
X110	Forward Lamp Harness to Left Headlamp Harness (8 Cavities)	—	In the engine compartment, at the rear of the left headlamp assembly	*Forward Lamp Harness Routing - Left Engine Compartment*	• *X110 Forward Lamp Harness to Left Headlamp Harness (X88 or Z88)* • *X110 Forward Lamp Harness to Left Headlamp Harness (Z75)*
X111	Front Axle Jumper Harness to Engine Harness (4 Cavities)	NP0 or NQH	In the engine compartment, left front, above the front axle	*Front Axle Harness Routing*	*X111 Front Axle Jumper Harness to Engine Harness*
X115	Engine Harness to Body Harness (48 Cavities)	—	In the front of the engine compartment, near the upper left, at front of Underhood Fuse Block	*Body Harness Routing - Engine Compartment Top*	*X115 Engine Harness to Body Harness*
X119	Body Harness to Brake Clutch Jumper Harness (16 Cavities)	—	In the passenger compartment, left side of the instrument panel, on IP junction block	*Body Harness Routing - Left Front of Passenger Compartment*	*X119 Body Harness to Brake Clutch Jumper Harness*
X120	Forward Lamp Harness to Right Headlamp Harness (8 Cavities)	—	In the engine compartment, at the rear of the right headlamp assembly	*Forward Lamp Harness Routing - Right Engine Compartment*	• *X120 Forward Lamp Harness to Right Headlamp Harness (X88 or Z88)* • *X120 Forward Lamp Harness to Right Headlamp Harness (Z75)*
X122	Forward Lamp Harness to Forward Lamp Harness (6 Cavities)	6J7	In the engine compartment, towards the front, right side, forward of the right hand wheel well	*Forward Lamp Harness Routing - Right Engine Compartment*	*X122 Forward Lamp Harness to Forward Lamp Harness (6J7)*
X125	Engine Harness to Chassis Harness (20 Cavities)	—	Under the vehicle, on the top left of the frame rail, near the top of the left front shock	*Chassis Harness Routing*	*X125 Engine Harness to Chassis Harness*
X139	Engine Harness to Forward Lamp Harness (8 Cavities)	—	in the engine compartment, left side, near center, inboard of underhood fuse block, below X125	*Forward Lamp Harness Routing - Left Engine Compartment*	*X139 Engine Harness to Forward Lamp Harness*
X150	Body Harness to Forward Lamp Harness (23 Cavities)	—	In the engine compartment, above the right front wheel well, between the battery and the inner fender	*Body Harness Routing - Engine Compartment Top*	*X150 Body Harness to Forward Lamp Harness*

X154	Engine Harness to Camshaft Jumper Harness (8 Cavities)	—	In the engine compartment, Front of engine, near power steering pulley	*Engine Harness Routing - Left Front*	*X154 Engine Harness to Camshaft Jumper Harness*
X158	Auxiliary Battery Harness to Engine Harness (6 Cavities)	5W4 or 9C1	In the engine compartment, right of center	—	*X158 Battery Harness to Engine Harness (5W4 or 9C1)*
X160	Engine Harness to Fuel Injector Harness (12 Cavities)	—	In the engine compartment, rear of the engine near the top center	*Engine Harness Routing - Right Rear*	*X160 Engine Harness to Fuel Injector Harness*
X161	Engine Harness to Even Fuel Injector Harness (12 Cavities)	—	In the engine compartment, rear of the engine near the top right	*Engine Harness Routing - Right Rear*	*X161 Engine Harness to Even Fuel Injector Harness*
X175	Engine Harness to Transmission Harness (36 Cavities)	M5U	Under the vehicle, forward of center, on the right side of the transmission, forward of the transfer case	*Engine Harness Routing - Right Rear*	*X175 Engine Harness to Transmission Harness (M5U)*
X176	Transmission Harness to Transmission Harness (22 Cavities)	M5U	Underside of the vehicle, forward of middle, internal to the transmission	—	—
X177	Transmission Harness to Transmission Harness (6 Cavities)	M5U	Underside of the vehicle, forward of middle, internal to the transmission	—	—
X182	Chassis Harness to Power Steering Jumper Harness (12 Cavities)	—	In the engine compartment, front left side, on the cross rail near the left frame rail.	*Chassis Harness Routing*	*X182 Chassis Harness to Power Steering Jumper Harness*
X183	Battery Harness to Power Steering Jumper Harness (2 Cavities)	—	In the engine compartment, front, on the cross rail, below the crank shaft pulley	—	*X183 Battery Cable Jumper to Power Steering Jumper Harness*
X185	Chassis Harness to Body Harness (40 Cavities)	—	In the rear of the engine compartment, right rear of the under hood fuse block	*Chassis Harness Routing*	*X185 Chassis Harness to Body Harness*
X195	Body Harness to Underhood Harness (4 Cavities)	5W4 or 9C1	In the engine compartment, right side	—	*X195 Body Harness to Underhood Harness (5W4 or 9C1)*
X201	Steering Column Harness to Instrument Panel Harness (42 Cavities)	—	In the passenger compartment, behind the left side of the instrument panel, near the steering column, above the Body Control Module	*Instrument Panel Harness Routing - Rear of Instrument Panel*	*X201 Steering Column Harness to Instrument Panel Harness*
X203	Headliner Harness to Instrument Panel Harness (12 Cavities)	—	In the passenger compartment, forward, left side, in the top of the instrument panel near the A-Pillar	*Headliner Harness Routing*	*X203 Headliner Harness to Instrument Panel Harness*
X204	Instrument Panel Harness LVDS to Headliner Harness LVDS	U42	In the passenger compartment, forward, left side, in the top of the instrument panel near the Navigation Antenna Signal Splitter	*Headliner Harness Routing*	• *X204 Instrument Panel Harness LVDS to Headliner Harness LVDS (U42 without DNU)* • *X204 Instrument Panel Harness LVDS to Headliner Harness LVDS (U42 with DNU)*
X205	Instrument Panel Harness to Passenger Air Bag Jumper Harness (4 Cavities)	—	In the passenger compartment, behind the right side of the instrument panel, right side of blower motor HVAC caser	*Instrument Panel Harness Routing - Rear of Instrument Panel*	*X205 Instrument Panel Harness to Passenger Air Bag Jumper Harness*
X212	GPS Antenna Jumper COAX to Instrument Panel Harness COAX (1 Cavity)	CV3 with UE1	In the passenger compartment, forward, right of center, in instrument panel near K73	—	*X212 GPS Antenna Jumper COAX to Instrument Panel Harness COAX (CV3 with UE1)*
X215	HVAC Harness to Instrument Panel Harness (14 Cavities)	—	In the passenger compartment, behind the upper right side of the instrument panel defroster deflector	*Instrument Panel Harness Routing - Rear of Instrument Panel*	*X215 HVAC Harness to Instrument Panel Harness*

X216	Body Harness to HVAC Harness (20 Cavities)	—	In the passenger compartment, behind the lower right side of the instrument panel glove box, on the HVAC case	*Body Harness Routing - Right Front of Passenger Compartment*	*X216 Body Harness to HVAC Harness*
X217	Body Harness to HVAC Harness (2 Cavities)	—	In the passenger compartment, behind the lower right side of the instrument panel glove box, on the HVAC case	*Body Harness Routing - Right Front of Passenger Compartment*	*X217 Body Harness to HVAC Harness*
X221	Instrument Panel COAX to Headliner Harness COAX (1 Cavity)	—	In the passenger compartment, forward, right side, top of instrument panel, under defrost deflector, at the Navigation Antenna Splitter	—	*X221 Instrument Panel COAX to Headliner Harness COAX*
X222	Instrument Panel Harness COAX to A-Pillar Harness COAX (2 Cavities)	UE1	In the passenger compartment, forward, right side, top of instrument panel, below the defrost deflector	*Instrument Panel Harness Routing - Rear of Instrument Panel*	• *X222 Instrument Panel COAX to A-Pillar Harness COAX (IO6 with VV4 or CV3)* • *X222 Instrument Panel COAX to A-Pillar Harness COAX (VV4 or CV3 without IO6)*
X225	Body Harness to Instrument Panel Harness (42 Cavities)	—	In the passenger compartment, forward, right side, below the Instrument panel, in the driver foot well, behind the kick panel	*Body Harness Routing - Left Front of Passenger Compartment*	*X225 Body Harness to Instrument Panel Harness*
X238	Body Harness USB to Instrument Panel Harness USB	AZ3	In the passenger compartment, front, below right side of Instrument Panel, behind kick panel	—	*X238 Body Harness USB to Instrument Panel Harness USB (AZ3)*
X245	Instrument Panel Harness COAX to A-Pillar Harness COAX (1 Cavity)	U2M	In the passenger compartment, forward, right side, top of instrument panel, below the defrost deflector	—	• *X245 Instrument Panel Harness COAX to A-Pillar Harness COAX (U2M with UE1)* • *X245 Instrument Panel Harness COAX to A-Pillar Harness COAX (U2M without UE1)*
X271	Instrument Panel Harness to Instrument Panel Harness (8 Cavities)	5W4 or 9C1	In the front of the passenger compartment, in the instrument panel	*Instrument Panel Harness Routing - Bottom Center*	*X271 Instrument Panel Harness to Instrument Panel Harness (5W4 or 9C1)*
X272	Instrument Panel Harness to Upfitter Jumper (6 Cavities)	6J3 or 6J7	In the passenger compartment, forward of center, under the center of the instrument panel	*Instrument Panel Harness Routing - Bottom Center*	*X272 Instrument Panel Harness to Upfitter Jumper (6J3 or 6J7)*
X275	Instrument Panel Harness to Body Harness (42 Cavities)	—	In the passenger compartment, forward, right side, below the Instrument panel, in the passenger foot well, behind the kick panel	*Instrument Panel Harness Routing - Rear of Instrument Panel*	*X275 Instrument Panel Harness to Body Harness*
X300	Instrument Panel Harness to Floor Console Harness (42 Cavities)	D07	In the passenger compartment, front center, underneath floor console cup holders	*Floor Console Harness Routing - Top (X88 or Z88)*	*X300 Instrument Panel Harness to Floor Console Harness (D07)*
X302	Floor Console Harness USB to Instrument Panel Harness USB	D07	In the passenger compartment, front center, underneath floor console cup holders	—	• *X302 Floor Console Harness USB to Instrument Panel Harness USB (D07 without U42)* • *X302 Floor Console Harness USB to Instrument Panel Harness USB (D07 with U42)*
X303	Floor Console Harness USB to Instrument Panel Harness USB	D07	In the passenger compartment, front center, underneath floor console cup holders	—	*X303 Instrument Panel Harness USB to Floor Console Harness USB (D07 with U42)*
X304	Body Harness USB to Center Seat Harness USB	AZ3	In the passenger compartment, forward of center, under the front center seat	—	*X304 Body Harness USB to Center Seat Harness USB (AZ3)*

X305	Instrument Panel Harness to Power Receptacle Jumper Harness (12 Cavities)	KI5	In the passenger compartment, forward of center, in the instrument panel	—	*X305 Instrument Panel Harness to Power Receptacle Jumper Harness (KI5)*
X306	Instrument Panel Harness to Floor Console Harness (6 Cavities)	KI4 or KI5 with D07	In the passenger compartment, front center, underneath floor console cup holders	*Instrument Panel Harness Routing - Bottom Center*	*X306 Instrument Panel Harness to Floor Console Harness (KI4 or KI5, with D07)*
X307	Floor Console Harness to Floor Console Harness (14 Cavities)	X88 or Z88 with D07	In the passenger compartment, forward of center, in the floor console	*Floor Console Harness Routing - Top (X88 or Z88)*	*X307 Floor Console Harness to Floor Console Harness (X88 or Z88 with D07)*
X308	Body Harness to 2nd Row Seat Jumper Harness (8 Cavities)	ATN, ATT or KA6	In the passenger compartment, rear of center, left side, under second row seat cushion	*Second Row Seat Harness Routing (ATT)*	*X308 Body Harness to 2nd Row Seat Jumper Harness (ATN, ATT or KA6)*
X310	Driver Seat Harness to Body Harness (48 Cavities)	—	In the passenger compartment, forward of center, left side, under the driver seat	*Body Harness Routing - Left Middle of Passenger Compartment*	*X310 Driver Seat Harness to Body Harness*
X311	Driver Seat Back Harness to Driver Seat Cushion Harness (6 Cavities)	—	In the passenger compartment, inside the driver seat, under the cushion	*Driver Seat Harness Routing*	*X311 Driver Seat Back Harness to Driver Seat Cushion Harness*
X312	Driver Seat Back Harness to Driver Seat Cushion Harness (16 Cavities)	—	In the passenger compartment, inside the driver seat, under the cushion	*Driver Seat Harness Routing*	*X312 Driver Seat Back Harness to Driver Seat Cushion Harness*
X313	Power Mat Jumper Harness to Floor Console Harness (3 Cavities)	DCK	In the passenger compartment, forward of center, in the floor console	*Floor Console Harness Routing - Bottom Front (Z75)*	*X313 Power Mat Jumper Harness to Floor Console Harness (DCK)*
X315	Headliner Harness to Body Harness (16 Cavities)	NKC, UGN or UTT	In the passenger compartment, forward, left side, behind left instrument panel access panel, near left instrument panel fuse block	*Headliner Harness Routing*	*X315 Headliner Harness to Body Harness (NKC, UGN or UTT)*
X316	Headliner Harness to Overhead Console Harness (26 Cavities)	—	In the passenger compartment, in the headliner, near the over head console	*Headliner Harness Routing*	*X316 Headliner Harness to Overhead Console Harness*
X318	Rain Sensor Jumper Harness to A-Pillar Harness (3 Cavities)	—	In the passenger compartment, overhead, forward and center, behind the inside rear view mirror	*A-Pillar Harness Routing - Right Passenger Compartment*	*X318 Rain Sensor Jumper Harness to A-Pillar Harness*
X319	Sunroof Harness to A-Pillar Harness (2 Cavities)	CF5	In the passenger compartment, in the headliner, between the sunroof harness and the overhead console	*Overhead Console Harness Routing*	*X319 A-Pillar Harness to Sunroof Harness (CF5)*
X320	Passenger Seat Harness to Body Harness (48 Cavities)	—	In the passenger compartment, forward of center, right side, under the passenger seat	*Body Harness Routing - Right Front of Passenger Compartment*	*X320 Passenger Seat Harness to Body Harness*
X321	Passenger Seat Back Harness to Passenger Seat Cushion Harness (6 Cavities)	—	In the passenger compartment, inside the passenger seat, under the cushion	—	*X321 Passenger Seat Back Harness to Passenger Seat Cushion Harness*
X322	Passenger Seat Back Harness to Passenger Seat Cushion Harness (6 Cavities)	—	In the passenger compartment, inside the passenger seat, under the cushion	—	*X322 Passenger Seat Back Harness to Passenger Seat Cushion Harness*
X324	Sunroof Harness to Overhead Console Harness (10 Cavities)	CF5	In the passenger compartment, front of center, overhead, in the overhead console	*Overhead Console Harness Routing*	*X324 Sunroof Jumper Harness to Overhead Console Harness (CF5)*
X338	Body Harness to 3rd Row Seat Left Harness (6 Cavities)	AS8	In the passenger compartment, rear, left side, under the third row seat cushion, on seat frame near folding seat control module	*Third Row Seat Harness Routing*	*X338 Body Harness to 3rd Row Seat Left Harness (AS8)*

X340	3rd Row Seat Right Harness to 3rd Row Seat Left Harness (6 Cavities)	AS8	In the passenger compartment, rear, left side, inside the 3rd row seat	*Third Row Seat Harness Routing*	*X340 3rd Row Seat Right Harness to 3rd Row Seat Left Harness (AS8)*
X348	Center Seat Harness to Body Harness (16 Cavities)	AZ3	In the passenger compartment, forward of center, under the center seat	—	*X348 Center Seat Harness to Body Harness (AZ3)*
X378	Body Harness to 2nd Row Seat Jumper Harness (8 Cavities)	ATN or ATT	In the passenger compartment, near center, right side, underneath second row seat, under carpet	*Second Row Seat Harness Routing (ATT)*	*X378 Body Harness to 2nd Row Seat Jumper Harness (ATN or ATT)*
X379	Body Harness to 2nd Row Seat Jumper Harness (2 Cavities)	ATN or ATT	In the rear compartment, right side, behind rear quarter trim at the D-pillar	—	*X379 Body Harness to 2nd Row Seat Jumper Harness (ATN or ATT)*
X380	Body Harness to Driver Roof Rail Air Bag Jumper (2 Cavities)	—	In the passenger compartment, at the left D-pillar, near the headliner	*Body Harness Routing - Left Rear of Passenger Compartment*	*X380 Body Harness to Driver Roof Rail Air Bag Jumper*
X390	Body Harness to Passenger Roof Rail Air Bag Jumper (2 Cavities)	—	In the passenger compartment, at the right D-pillar, near the headliner	*Body Harness Routing - Right Rear of Passenger Compartment*	*X390 Body Harness to Passenger Roof Rail Air Bag Jumper*
X399	Instrument Panel Harness to Instrument Panel Harness (2 Cavities)	—	In the passenger compartment, below the lower left side of the instrument panel, near the data link connector	*Instrument Panel Harness Routing - Rear of Instrument Panel*	*X399 Instrument Panel Harness to Instrument Panel Harness*
X410	Left Tail Lamp Jumper to Chassis Harness (6 Cavities)	—	At the rear of the vehicle, left corner, underneath, on left frame rail	*Chassis Harness Routing*	*X410 Left Tail Lamp Jumper to Chassis Harness*
X420	Right Tail Lamp Jumper to Chassis Harness (6 Cavities)	—	At the rear of the vehicle, right corner, underneath, on right frame rail	*Chassis Harness Routing*	*X420 Right Tail Lamp Jumper to Chassis Harness*
X421	Antenna Jumper Harness COAX to Headliner Harness COAX (1 Cavity)	—	In the rear compartment right side, above the rear quarter glass, above the headliner	—	*X421 Headliner Harness COAX to Antenna Jumper Harness COAX*
X485	CHMSL Harness to Body Harness(2 Cavities)	—	In the rear compartment, at the rear, right of center, attached to the roof above the headliner	—	*X485 Overhead Console Harness to Body Harness*
X486	Body Harness to Rear Dome Lamp Jumper Harness (2 Cavities)	LWB	In the rear compartment, at the rear, right side, at the top of the D-pillar, above the headliner	*Body Harness Routing - Right Rear of Passenger Compartment*	*X486 Body Harness to Rear Dome Lamp Jumper Harness (LWB)*
X487	Body Harness to Rear HVAC Jumper Harness (14 Cavities)	—	In the rear compartment, at the rear, right side, mid way up the D-pillar	*Body Harness Routing - Right Rear of Passenger Compartment*	*X487 Body Harness to Auxiliary HVAC Jumper Harness*
X490	Body Harness to Body Harness (8 Cavities)	—	In the rear compartment, center, rear of vehicle, above the headliner	*Body Harness Routing - Left Rear of Passenger Compartment*	*X490 Body Harness to Body Harness*
X495	Body Harness to Rear Bumper Harness (40 Cavities)	—	At the rear of the vehicle, at the right corner, behind the rear fascia	*Rear Bumper Harness Routing (Z75)*	*X495 Body Harness to Rear Bumper Harness*
X500	Driver Door Harness to Body Harness (41 Cavities)	—	In the passenger compartment, forward, left side, in the driver door jam, between door hinges	*Driver Door Harness Routing*	*X500 Driver Door Harness to Body Harness*
X505	Driver Door Harness to Driver Door Trim Harness (48 Cavities)	—	In the driver door, behind the driver door panel	*Driver Door Harness Routing*	*X505 Driver Door Harness to Driver Door Trim Harness*
X510	OSRVM Harness to Door Driver Harness (18 Cavities)	—	At the front of the driver door, behind driver door trim panel	—	*X510 OSRVM Harness to Driver Door Harness*
X515	Left OSRVM Camera Jumper to Door Driver Harness (7 Cavities)	UVH	At the front of the left front door, inside the Outside Rearview Mirror	—	*X515 Left OSRVM Camera Jumper to Door Driver Harness (UVH)*
X525	Driver OSRVM Harness to Driver OSRVM Glass Harness (6 Cavities)	—	At the front of the left front door, inside the Outside Rearview Mirror	—	*X525 Driver OSRVM Harness to Driver OSRVM Glass Harness*

X600	Passenger Door Harness to Body Harness (41 Cavities)	—	In the passenger compartment, forward, right side, in the passenger door jam, between door hinges	*Body Harness Routing - Right Front of Passenger Compartment*	*X600 Passenger Door Harness to Body Harness*
X605	Passenger Door Harness to Passenger Door Trim Harness (48 Cavities)	—	In the passenger door, behind the passenger door panel	*Passenger Door Harness Routing*	*X605 Passenger Door Harness to Passenger Door Trim Harness*
X610	OSRVM Harness to Door Passenger Harness (18 Cavities)	—	At the front of the passenger door, behind passenger door trim panel	—	*X610 OSRVM Harness to Passenger Door Harness*
X615	Right OSRVM Camera Jumper to Door Driver Harness (7 Cavities)	UVH	At the front of the right front door, inside the Outside Rearview Mirror	—	*X615 Outside Rearview Mirror Jumper to Passenger Door Harness (UVH)*
X625	Passenger OSRVM Harness to Passenger OSRVM Glass Harness (4 Cavities)	—	At the front of the left front door, inside the Outside Rearview Mirror	—	—
X700	Left Rear Door Harness to Body Harness (20 Cavities)	—	In the passenger compartment, behind the left B-pillar, near the middle	*Left Rear Door Harness Routing*	*X700 Left Rear Door Harness to Body Harness*
X705	Left Rear Door Harness to Left Rear Door Trim Harness (6 Cavities)	Z75	In the left rear door, behind the door panel	*Left Rear Door Harness Routing*	*X705 Left Rear Door Harness to Left Rear Door Trim Harness (Z75)*
X800	Right Rear Door Harness to Body Harness (20 Cavities)	—	In the passenger compartment, behind the right B-pillar, near the middle	*Body Harness Routing - Right Front of Passenger Compartment*	*X800 Right Rear Door Harness to Body Harness*
X805	Right Rear Door Harness to Right Rear Door Trim Harness (6 Cavities)	Z75	In the right rear door, behind the door panel	*Right Rear Door Harness Routing*	*X805 Right Rear Door Harness to Right Rear Door Trim Harness (Z75)*
X900	Liftgate Harness to Body Harness (36 Cavities)	—	At the rear of the vehicle, at the top near center of the liftgate	*Liftgate Harness Routing*	*X900 Liftgate Harness to Body Harness*
G100	Auxiliary Battery Negative Harness	5W4 or 9C1	In the engine compartment, front left of center, on front of the engine block, rearward of the auxiliary battery	*G100 (5W4 or 9C1)*	—
G101	Forward Lamp Harness	—	Behind front fascia, lower left of the radiator core support, forward of the left side frame mount to the core support	*G101*	—
G102	Forward Lamp Harness	—	Behind front fascia, lower right of the radiator core support, forward of the right side frame mount to the core support	*G102*	—
G103	Battery Negative Harness	—	In the engine compartment, right of center, on the right side frame rail, below battery	—	—
G110	Engine Harness	—	In the engine compartment, front left of center, on the left side of the engine block near the front, behind the water pump	*G110*	—
G113	Engine Harness	—	In the engine compartment, rear left of center, from the engine, back side of left cylinder head to the bulkhead	—	—
G121	Chassis Harness	—	Under vehicle, outboard side of left frame rail, rearward side of the front body mount to chassis	*G121*	—
G125	Electric Power Steering Harness	—	In the engine compartment, front right of center, on the front of the engine, above the A/C compressor	*G125*	—

G130	Engine Harness	—	In the engine compartment, rear left of center, on the engine, back side of left cylinder head	*G130*	—
G140	Engine Harness	—	In the engine compartment, rear right of center, on the engine, back side of right cylinder head	*G140*	—
G141	Battery Negative Harness	—	In the engine compartment, rear right of center, on the engine, back side of right cylinder head	—	—
G210	Instrument Panel Harness	—	In the passenger compartment, front right of center, top side of instrument panel, below trim, inboard of right A-Pillar	*G210*	—
G218	Instrument Panel Harness	—	In the passenger compartment, front left of center, top side of instrument panel, below trim, inboard of left A-Pillar	*G218*	—
G311	Body Harness	—	In the passenger compartment, left middle, base of left side B-Pillar	*G311 and G325*	—
G312	Body harness	—	In the passenger compartment, right middle, base of right side B-Pillar	*G312 and G327*	—
G325	Body Harness	—	In the passenger compartment, left middle, on floor below driver seat, near X310	*G311 and G325*	—
G327	Body Harness	—	In the passenger compartment, right middle, on floor below passenger seat, near X320	*G312 and G327*	—
G400	Chassis Harness	—	Under vehicle, inboard of left frame rail, top side of rear most cross member	*G400*	—
G402	Body Harness	—	In the luggage compartment, right rear, on right side D-Pillar, near bottom of quarter window	*G402*	—
J101	Front Bumper Harness	T3U	At front of vehicle, middle, approximately 16cm (6.25 inches) forward of the harness break-out for the right fog lamp.	-	-
J102	Aero Shutter Harness	IK9	At front of vehicle, lower middle	-	-
J103	Front Bumper Harness	UGN with Z75	At front of vehicle, middle, approximately 18.5cm (7.25 inches) forward of the harness break-out for the right outer front object sensor.	-	-
J105	Front Bumper Harness	UD5	At front of vehicle, middle, approximately 8cm (3.5 inches) forward of the harness break-out for the right outer front object sensor.	-	-
J106	Front Bumper Harness	UGN with Z75	At front of vehicle, middle, approximately 14cm (5.5 inches) forward of the harness break-out for the front view camera.	*Forward Lamp Harness Routing - Left Engine Compartment*	-
J107	Front Bumper Harness	UD5	At front of vehicle, middle, approximately 12cm (4.75 inches) forward of the harness break-out for the right outer front object sensor.	-	-
J110	Left Headlamp Harness	-	At front of vehicle, left, within the headlamp assembly - left	-	-
J111	Forward Lamp Harness	UGN with Z75	In the engine compartment, front middle, approximately 4.5cm (1.75 inches) from break-out to inline X100	-	-

J114	Forward Lamp Harness	-	In the engine compartment, left front, bottom, approximately 9cm (3.5 inches) from break-out to G101	*Forward Lamp Harness Routing - Left Engine Compartment*	-
J115	Forward Lamp Harness	-	In the engine compartment, left front, in the breakout to X110 approximately 18cm (7 inches) from the main harness bundle	*Forward Lamp Harness Routing - Left Engine Compartment*	-
J116	Forward Lamp Harness	Z75	In the engine compartment, left front, approximately 20cm (7.75 inches) from break-out to X110	*Left Rear Door Harness Routing*	-
J117	Forward Lamp Harness	Z75	In the engine compartment, left front, approximately 15cm (5.75 inches) from break-out to X110	-	-
J118	Left Multifunction Lamp Harness	Z75	At front of vehicle, left, within the multifunction lamp assembly in the front fascia - left	-	-
J119	Aero Shutter Harness	IK9	At front of vehicle, lower middle	-	-
J120	Right Headlamp Harness	-	At front of vehicle, right, within the headlamp assembly - right	-	-
J121	Auxiliary Battery Harness	5W4 or 9C1	In the engine compartment, left front	-	-
J124	Engine Harness	-	In the engine compartment, front left of center, approximately 13.5cm (5.25 inches) from break-out to G110	*Engine Harness Routing - Left Front*	-
J125	Forward Lamp Harness	-	In the engine compartment, front, right of middle, bottom, approximately 7.5cm (3 inches) from break-out to G102	*Forward Lamp Harness Routing - Right Engine Compartment*	-
J126	Engine Harness	-	In the engine compartment, front left of center, near thermostat housing, approximately 15.5cm (6 inches) from break-out to X115,	*Engine Harness Routing - Left Front*	-
J127	Engine Harness	-	In the engine compartment, front left of center, in harness break-out to ECM, approximately 17cm (6.5 inches) from main harness bundle	*Engine Harness Routing - Left Front*	-
J128	Right Multifunction Lamp Harness	Z75	At front of vehicle, right, within the multifunction lamp assembly in the front fascia - right	-	-
J130	Forward Lamp Harness	-	In the engine compartment, left front, bottom, approximately 5cm (2 inches) from break-out to the left impact sensor	*Forward Lamp Harness Routing - Left Engine Compartment*	-
J150	Engine Harness	K59	In the engine compartment, front left of center, bottom near power steering pump, approximately 14cm (5.50 inches) from break-out to the left knock sensor	*Engine Harness Routing - Left Front*	-
J151	Engine Harness	K59	In the engine compartment, front left of center, bottom near power steering pump, approximately 6cm (2.25 inches) from break-out to the left knock sensor	*Engine Harness Routing - Left Front*	-
J152	Engine Harness	K59	In the engine compartment, middle left of center, near top, approximately 5cm (2 inches) forward of break-out to ignition coil number 1	*Engine Harness Routing - Left Front*	-

J153	Engine Harness	K59	In the engine compartment, middle left of center, near top, approximately 3cm (1 inch) rearward of break-out to ignition coil number 1	*Engine Harness Routing - Left Front*	-
J161	Engine Harness	-	In the engine compartment, middle left of center, near top, approximately 7cm (2.75 inches) rearward of break-out to ignition coil number 1	*Engine Harness Routing - Left Front*	-
J162	Engine Harness	-	In the engine compartment, middle right of center, near top, approximately 5cm (2 inches) foreward of break-out to ignition coil number 4	-	-
J163	Engine Harness	-	In the engine compartment, front left of center, near top, approximately 10.5cm (4 inches) from break-out to engine oil pressure sensor	*Engine Harness Routing - Left Front*	-
J165	Engine Harness	-	In the engine compartment, rear left of center, on break-out to X115, approximately 12cm (4.75 inches) from main harness bundle	*Engine Harness Routing - Left Front*	-
J166	Engine Harness	-	In the engine compartment, rear center, top, approximately 19cm (7.5 inches) left of break-out to G140	*Engine Harness Routing - Right Rear*	-
J175	Transmission 8-Speed	M5U	Internal to transmission	-	-
J176	Transmission 8-Speed	M5U	Internal to transmission	-	-
J177	Transmission 8-Speed	M5U	Internal to transmission	-	-
J178	Engine Harness	M5U	In the engine compartment, rear center, top, approximately 18cm (7 inches) from break-out to X160	-	-
J179	Engine Harness	M5U	In the engine compartment, rear center, top, approximately 14.5cm (5.75 inches) from break-out to X160	-	-
J191	Chassis Harness	-	Underside of the vehicle, left frame rail, approximately 35.5cm (14 inches) rearward of break-out for G121	*Chassis Harness Routing*	-
J192	Chassis Harness	BRS	Underside of the vehicle, left frame rail, approximately 30.5cm (12 inches) rearward of break-out for G121	*Chassis Harness Routing*	-
J199	Chassis Harness	IK9	Underside of the vehicle, left frame rail, on main harness bundle, approximately 10cm (4 inches) rearward of break-out for X125 and X182	*Chassis Harness Routing*	-
J205	Instrument Panel Harness	-	In the instrument panel, left of center, behind cluster, approximately 4cm (1.5 inches) from break-out to G218	*Instrument Panel Harness Routing - Rear of Instrument Panel*	-
J207	Brake/Clutch Harness	NP0 or NQH	Underside of instrument panel, left side, approximately 44cm (17.25 inches) from break-out to transfer case control module	-	-
J208	Instrument Panel Harness	-	In the instrument panel, left side, on a break-out to the BCM, approximately 14cm (5.5 inches) from main harness bundle	*Instrument Panel Harness Routing - Rear of Instrument Panel*	-
J210	Instrument Panel Harness	-	In the instrument panel, left side, approximately 2.5cm (1 inch) from breakout to BCM	*Instrument Panel Harness Routing - Rear of Instrument Panel*	-

J211	Instrument Panel Harness	-	In the instrument panel, left of center, behind cluster, approximately 7cm (2.75 inches) from break-out to G218	*Instrument Panel Harness Routing - Rear of Instrument Panel*	-
J212	Instrument Panel Harness	Z75	In the instrument panel, left of center, behind cluster, approximately 12cm (4.75 inches) from breakout to X300	*Instrument Panel Harness Routing - Rear of Instrument Panel*	-
J220	Instrument Panel Harness	-	In the instrument panel, center, approximately 5cm (2 inches) from break-out to the media disc player	*Instrument Panel Harness Routing - Rear of Instrument Panel*	-
J241	Instrument Panel Harness	-	In the instrument panel, left side, on a break-out to X225, in a formed conduit, approximately 20cm (8 inches) from X225	*Instrument Panel Harness Routing - Rear of Instrument Panel*	-
J242	Instrument Panel Harness	-	In the instrument panel, right side, behind glove box, approximately 5cm (2 inches) from break-out to the right instrument panel fuse block	*Instrument Panel Harness Routing - Rear of Instrument Panel*	-
J249	Instrument Panel Harness	-	In the instrument panel, center, approximately 12cm (4.75 inches) from break-out to the radio	*Instrument Panel Harness Routing - Rear of Instrument Panel*	-
J250	Instrument Panel Harness	IO5 or IO6 or TG5	In the instrument panel, center, approximately 20cm (7.75 inches) from break-out to the right instrument panel fuse block	*Instrument Panel Harness Routing - Rear of Instrument Panel*	-
J251	Instrument Panel Harness	-	In the instrument panel, center, approximately 6cm (2.5 inches) from break-out to the radio	*Instrument Panel Harness Routing - Rear of Instrument Panel*	-
J255	HVAC Harness	-	In the front of the passenger compartment, near center, approximately 4cm (1.5 inches) from breakout to G210	-	-
J257	HVAC Harness	-	In the front of the passenger compartment, near center, approximately 23.5cm (9.25 inches) from breakout to X215	-	-
J258	HVAC Harness	-	In the front of the passenger compartment, near center, approximately 6.5cm (2.5 inches) from breakout to air temerature door actuator - right	-	-
J259	HVAC Harness	-	In the front of the passenger compartment, near center, approximately 23.5cm (9.25 inches) from breakout to X215	-	-
J260	Instrument Panel Harness	IO5 or IO6 with UE1, UEU or UFL	In the instrument panel, center, approximately 13cm (5 inches) from break-out to the radio	*Instrument Panel Harness Routing - Rear of Instrument Panel*	-
J279	Steering Column Harness	-	In the front of the passenger compartment, left of center, along steering column	-	-
J284	Steering Column Harness	-	In the front of the passenger compartment, left of center, along steering column	-	-
J285	Steering Column Harness	-	In the front of the passenger compartment, left of center, in steering wheel, between S70L and break-out to X85	*Steering Wheel Harness Routing*	-
J286	Steering Column Harness	UVD	In the front of the passenger compartment, left of center, in steering wheel, between S70R and break-out to X85	-	-

J289	Body Harness	-	In the passenger compartment, front, left of center, behind instrument panel, inside a formed conduit, approximately 6cm (2.25 inches) from the break-out to the instrument panel junction block	*Body Harness Routing - Left Front of Passenger Compartment*	-
J294	Instrument Panel Harness	-	In the instrument panel, left side, between break-out for the BCM and break-out for X399	*Instrument Panel Harness Routing - Rear of Instrument Panel*	-
J295	Steering Column Harness	-	In the front of the passenger compartment, left of center, in steering wheel, between S70R and break-out to X85	*Steering Wheel Harness Routing*	
J301	Overhead Console Harness	-	In the passenger compartment, overhead, front and center, on break-out to right overhead console reading lamp, approximately 3cm (1.25 inches) from main harness bundle	*Overhead Console Harness Routing*	-
J302	Overhead Console Harness	-	In the passenger compartment, overhead, front and center, approximately 3.5cm (1.25 inches) from break-out to floor console flood lamp	*Overhead Console Harness Routing*	-
J303	Overhead Console Harness	-	In the passenger compartment, overhead, front and center, approximately 8.5cm (3.5 inches) from break-out to right overhead console reading lamp	*Overhead Console Harness Routing*	-
J304	Body Harness	Z75	In the passenger compartment, front, left side, behind instrument panel, approximately 4cm (1.5 inches) from the break-out to X225	*Body Harness Routing - Left Front of Passenger Compartment*	-
J305	Passenger Seat Harness	ULT	In the passenger compartment, forward of middle, right of center, within the passenger seat cusion	-	-
J306	Body Harness	-	In the passenger compartment, forward of middle, just left of center, between driver and passenger seat, in a formed conduit, approximately 27.5cm (10.75 inches) from the break-out to the inflatable restraint sensing and diagnostic module	*Body Harness Routing - Left Front of Passenger Compartment*	-
J307	Body Harness	DL3 or DR4	In the passenger compartment, front, left side, along A-pillar, in the break-out to X500, in a formed conduit, approximately 20cm (7.75 inches) from the main harness bundle	*Body Harness Routing - Left Front of Passenger Compartment*	-
J308	Body Harness	-	In the passenger compartment, front, left side, along A-pillar, in the break-out to the left instrument panel fuse block, approximately 4cm (1.5 inches) from the main harness bundle	*Body Harness Routing - Left Front of Passenger Compartment*	-
J309	Body Harness	IK9, JL1, NP0 or NQH	In the passenger compartment, front, left side, behind instrument panel, approximately 6cm (2.25 inches) from the break-out for the Park Brake Switch	*Body Harness Routing - Left Front of Passenger Compartment*	-
J310	Body Harness	UTT	In the passenger compartment, front, left side, along A-pillar, forward of driver door sill, approximately 5cm (2 inches) from the break-out to left instrument panel fuse block	*Body Harness Routing - Left Front of Passenger Compartment*	-
J311	Headliner Harness	-	In the passenger compartment, overhead, front and to the left, approximately 14cm (5.5 inches) fromt the break-out to X316	*Headliner Harness Routing*	-

J312	Headliner Harness	-	In the passenger compartment, overhead, front and to the left, approximately 45cm (17.75 inches) fromt the break-out to X316	*Headliner Harness Routing*	-
J313	Driver Seat Harness	-	In the passenger compartment, forward of middle, left of center, within the driver seat cusion, between the break-out to sear front vertical motor and break-out to seat belt switch	*Driver Seat Harness Routing*	-
J314	Driver Seat Harness	-	In the passenger compartment, forward of middle, left of center, within the driver seat cusion, between the break-out to sear front vertical motor and break-out to seat belt switch	*Driver Seat Harness Routing*	-
J315	Driver Seat Harness	-	In the passenger compartment, forward of middle, left of center, within the driver seat cusion, between the break-out to sear front vertical motor and break-out to seat rear vertical motor	*Driver Seat Harness Routing*	-
J316	Driver Seat Harness	KB6	In the passenger compartment, forward of middle, left of center, within the driver seat cusion, between X310 and break-out to seat rear vertical motor	*Driver Seat Harness Routing*	-
J317	Driver Seat Harness	KB6	In the passenger compartment, forward of middle, left of center, within the driver seat cusion, between X310 and break-out to seat rear vertical motor	*Driver Seat Harness Routing*	-
J318	Driver Seat Harness	KB6	In the passenger compartment, forward of middle, left of center, within the driver seat back	-	-
J319	Headliner Harness	DNU or U42	In the passenger compartment, overhead, front and to the left, approximately 56cm (22 inches) fromt the break-out to X203	*Headliner Harness Routing*	-
J320	Headliner Harness	AZ3	In the passenger compartment, overhead, front and to the left, approximately 38cm (15 inches) fromt the break-out to X316	*Headliner Harness Routing*	-
J322	Body Harness	906 or Z75	In the passenger compartment, forward of middle, just right of center, between driver and passenger seat, in a formed conduit, approximately 20.5cm (8 inches) from the break-out to G327	*Body Harness Routing - Right Front of Passenger Compartment*	-
J323	Passenger Seat Harness	AN3, A95, KA1 or KB6	In the passenger compartment, forward of middle, right of center, within the passenger seat cusion, between break-out for passenger seat back connector and break-out for passenger presence module	-	-
J324	Passenger Seat Harness	-	In the passenger compartment, forward of middle, right of center, within the passenger seat cusion, between break-out for seat belt anchor pretensioner and break-out for passenger presence module	-	-
J325	Headliner Harness	-	In the passenger compartment, overhead, front and to the left, approximately 20.5cm (8 inches) fromt the break-out to X316	-	-

J326	Passenger Seat Harness	KB6	In the passenger compartment, forward of middle, right of center, within the passenger seat cusion, between break-out for cusion heating element and break-out for the lumbar switch.	-	-
J327	Passenger Seat Harness	KB6	In the passenger compartment, forward of middle, right of center, within the passenger seat cusion, between break-out for passenger seat back connector and break-out for passenger presence module	-	-
J328	Passenger Seat Harness	KB6	In the passenger compartment, forward of middle, right of center, within the passenger seat back	-	-
J329	Passenger Seat Harness	ULT	In the passenger compartment, forward of middle, right of center, within the passenger seat cusion	-	-
J330	Body Harness	BTM or UGN	In the passenger compartment, forward of middle, left side, under the driver seat, near the driver door sill, in a formed conduit, approximately 9cm (3.5 inches) from the break-out for G325	*Body Harness Routing - Left Front of Passenger Compartment*	-
J331	Body Harness	-	In the passenger compartment, forward of middle, left side, under the driver seat, near the driver door sill, in a formed conduit, approximately 9cm (3.5 inches) from the break-out for G325	*Body Harness Routing - Left Front of Passenger Compartment*	-
J332	Headliner Harness	-	In the passenger compartment, overhead, front and to the left, approximately 51.5cm (20.25 inches) fromt the break-out to X316	*Headliner Harness Routing*	-
J333	Overhead Console Harness	-	In the passenger compartment, overhead, front and center, on break-out to passenger disabled indicator, approximately 5cm (2 inches) from main harness bundle	*Overhead Console Harness Routing*	-
J334	Body Harness	UGN with Z75	In the passenger compartment, forward of middle, left side, under the driver seat, in a formed conduit, approximately 14cm (5.5 inches) from the break-out for G325	*Body Harness Routing - Left Front of Passenger Compartment*	-
J335	Driver Seat Harness	ULT	In the passenger compartment, forward of middle, left of center, within the driver seat back	-	-
J338	Driver Seat Harness	ULT	In the passenger compartment, forward of middle, left of center, within the driver seat cusion	-	-
J339	Floor Console Harness	D07 with DCK or K4C	In passenger compartment, forward of middle, between the driver and passenger seat, in floor console, approximately 17cm (6.75 inches) from the break-out to the accessory power receptacle for the floor console storage bin	• *Floor Console Harness Routing - Top (X88 or Z88)* • *Floor Console Harness Routing - Bottom Front (Z75)*	-
J342	Body Harness	UQA	In the passenger compartment, rear of middle, left side, approximately 39cm (15.25 inches) from the break-out for the right rear glass breakage sensor	-	-

J343	Body Harness	UQA	In the passenger compartment, rear of middle, left side, approximately 22.5cm (8.75 inches) from the break-out for the right rear glass breakage sensor	-	-
J346	Body Harness	UQA	In the passenger compartment, rear of middle, left side, approximately 43cm (16.75 inches) from the break-out for the right rear glass breakage sensor	-	-
J347	Body Harness	UQA	In the passenger compartment, rear of middle, right side, approximately 15cm (6 inches) from the break-out to X800	-	-
J348	Passenger Seat Harness	ULT	In the passenger compartment, forward of middle, right of center, within the passenger seat cusion	-	-
J350	Body Harness	-	In the passenger compartment, forward of middle, just right of center, between driver and passenger seat, in a formed conduit, approximately 35cm (13.75 inches) from the break-out to G327	*Body Harness Routing - Left Front of Passenger Compartment*	-
J351	Body Harness	without BTM	In the passenger compartment, near middle, left side, near base of B-Pillar, approximately 20cm (7.75 inches) from the break-out to the driver side seat retractor	*Body Harness Routing - Left Middle of Passenger Compartment*	-
J352	Body Harness	ATN or ATT	In the passenger compartment, near middle, left side, along left rear door sill, in a formed conduit, approximately 15cm (6 inches) from the break-out to X308	*Body Harness Routing - Left Middle of Passenger Compartment*	-
J353	Body Harness	-	In the passenger compartment, near middle, left side, at the base of the B-pillar, in a formed conduit, approximately 7cm (2.75 inches) from the break-out to X700	*Body Harness Routing - Left Front of Passenger Compartment*	-
J354	Body Harness	-	In the passenger compartment, near rear, left side, at base of C-pillar, approximately 25cm (10 inches) from the break-out to the left rear side impact sensor	*Body Harness Routing - Left Middle of Passenger Compartment*	-
J355	Chassis Harness	-	Underside of the vehicle, left frame rail, on main harness bundle, approximately 45cm (17.75 inches) rearward of break-out for the brake control module	*Chassis Harness Routing*	-
J356	Chassis Harness	-	Underside of the vehicle, left frame rail, on main harness bundle, approximately 15cm (6 inches) rearward of break-out for the brake control module	*Chassis Harness Routing*	-
J357	Second Row Seat Left Harness	ATN or ATT with KA6	In the passenger compartment, near middle, left side, in the second row left seat, approximately 20.5cm (8 inches) from X308	*Second Row Seat Harness Routing (ATT)*	-
J358	Body Harness	5W4 or 9C1	In the passenger compartment, near middle, left side, near B-pillar, approximately 8.5cm (3.5 inches) from the break-out to G325	-	-
J360	Body Harness	-	In the passenger compartment, forward of middle, right side, along passenger door sill, in a formed conduit, approximately 35.5cm (14 inches) from the break-out to G312	*Body Harness Routing - Right Front of Passenger Compartment*	-

J361	Body Harness	-	In the passenger compartment, forward of middle, left of center, between driver and passenger seat, in a formed conduit, approximately 18cm (7 inches) from the break-out to the inflatable restraint and diagnostic module	*Body Harness Routing - Left Front of Passenger Compartment*	-
J362	Body Harness	AZ3, AX7, ATN, ATT, KA6 or Z75	In the passenger compartment, forward of middle, right side, along the driver door sill, just forward of the B-pillar, in a formed conduit, approximately 12cm (4.5 inches) from the break-out to G312	*Body Harness Routing - Right Front of Passenger Compartment*	-
J363	Body Harness	-	In the passenger compartment, forward of middle, right side, along the driver door sill, in a formed conduit, approximately 44cm (17 inches) from the break-out to G312	*Body Harness Routing - Right Front of Passenger Compartment*	-
J364	Body Harness	Z75	In the passenger compartment, forward of middle, right side, under the passenger seat, in a formed conduit, approximately 7cm (2.75 inches) from the break-out to G327	*Body Harness Routing - Right Front of Passenger Compartment*	-
J365	Body Harness	-	In the passenger compartment, front, right side, along passenger door sill, in a formed conduit, approximately 47.5cm (18.75 inches) from the break-out to X275	*Body Harness Routing - Right Front of Passenger Compartment*	-
J366	Second Row Seat Right Harness	ATN or ATT with KA6	In the passenger compartment, near middle, left side, in the second row right seat, approximately 23cm (9 inches) from X378	*Second Row Seat Harness Routing (ATT)*	-
J367	Body Harness	DL3 or DR4	In the passenger compartment, front, right side, along passenger door sill, in a formed conduit, approximately 41.5cm (16.5 inches) from the break-out to X275	*Body Harness Routing - Right Front of Passenger Compartment*	-
J368	Body Harness	-	In the passenger compartment, front, right side, along passenger door sill, in a formed conduit, approximately 52.5cm (20.75 inches) from the break-out to X275	*Body Harness Routing - Right Front of Passenger Compartment*	-
J369	Body Harness	-	In the passenger compartment, front, right side, along passenger door sill, in a formed conduit, approximately 57.5cm (22.5 inches) from the break-out to X275	*Body Harness Routing - Right Front of Passenger Compartment*	-
J370	Body Harness	KA1, KA6 or UTT	In the passenger compartment, front, right side, along passenger door sill, in a formed conduit, approximately 30cm (11.75 inches) from the break-out to G312	*Body Harness Routing - Right Front of Passenger Compartment*	-
J371	Body Harness	-	In the passenger compartment, forward of middle, right side, under the passenger seat, in a formed conduit, approximately 16cm (6.5 inches) from the break-out to G312	*Body Harness Routing - Right Front of Passenger Compartment*	-
J372	Body Harness	A45	In the passenger compartment, forward of middle, right side, under the passenger seat, in a formed conduit, approximately 12cm (4.75 inches) from the break-out to G312	*Body Harness Routing - Right Front of Passenger Compartment*	-
J373	Body Harness	UTT	In the passenger compartment, forward of middle, right side, under the passenger seat, in a formed conduit, approximately 3cm (1.25 inches) from the break-out to G312	*Body Harness Routing - Right Front of Passenger Compartment*	-

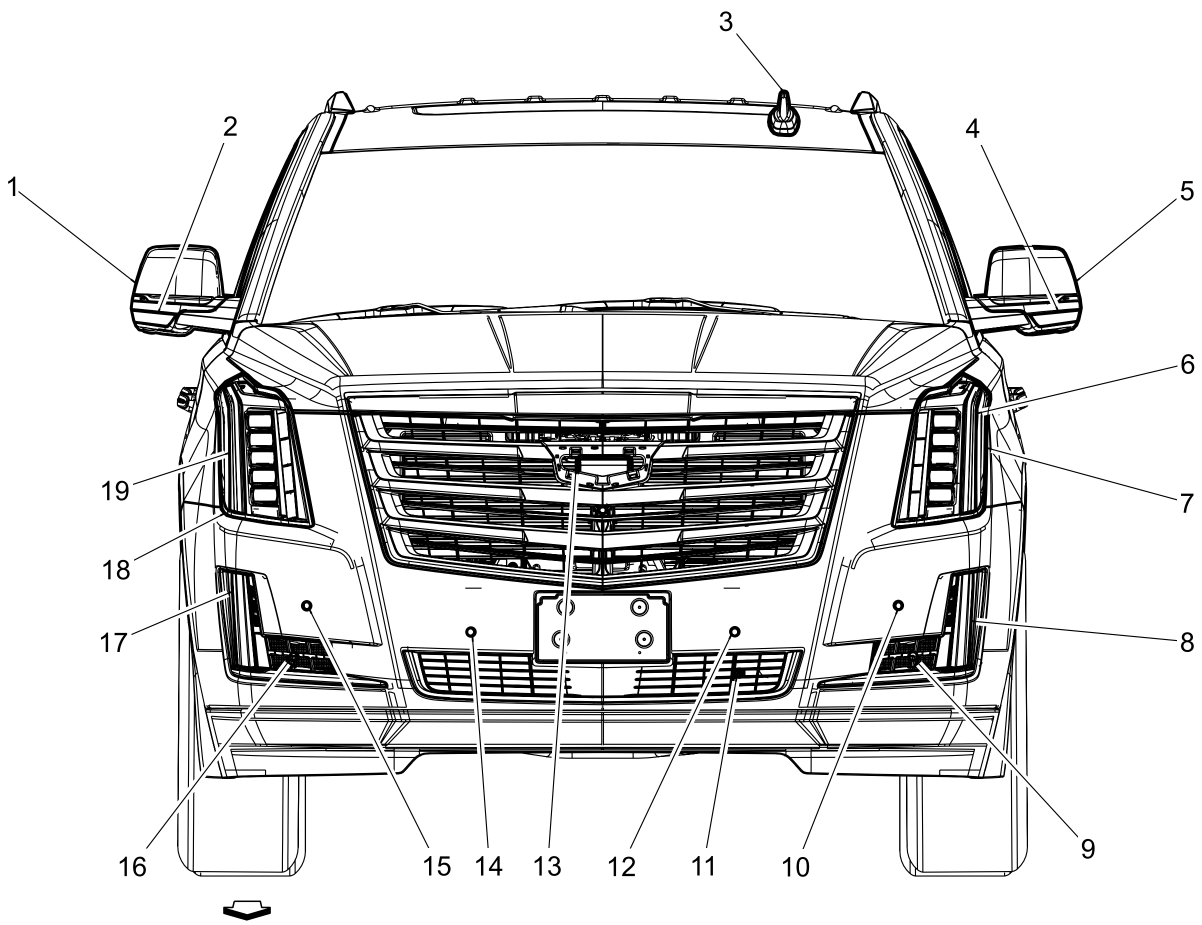
J374	Chassis Harness	5W4 or 9C1	In the passenger compartment, forward of middle, just right of center, between driver and passenger seat, in a formed conduit, approximately 47cm (17 inches) from the break-out to G327	-	-
J375	Chassis Harness	-	Underside of the vehicle, left frame rail, on main harness bundle, approximately 8cm (3 inches) forward of break-out for X351	*Chassis Harness Routing*	-
J376	Chassis Harness	5W4 or 9C1	In the passenger compartment, forward of middle, just right of center, between driver and passenger seat, in a formed conduit, approximately 41cm (16 inches) from the break-out to G327	-	-
J379	Body Harness	DL3, DL8 or DR4	In the passenger compartment, forward of middle, just left of center, between the driver and passenger seat, in a formed conduit, approximately 43cm (17 inches) from the break-out to the inflatable restraint and diagnostic module	*Body Harness Routing - Left Front of Passenger Compartment*	-
J381	Body Harness	UTT	In the passenger compartment, rear, left side, approximately 10cm (4 inches) from the break-out to the rear fuse block	-	-
J382	Body Harness	BRS, DL3, DR4 or HD7	In the passenger compartment, forward of middle, just left of center, between the driver and passenger seat, in a formed conduit, approximately 23.5cm (9.25 inches) from the break-out to the inflatable restraint and diagnostic module	*Body Harness Routing - Left Front of Passenger Compartment*	-
J383	Body Harness	-	In the passenger compartment, forward of middle, just left of center, between the driver and passenger seat, in a formed conduit, approximately 32.5cm (12.75 inches) from the break-out to the inflatable restraint and diagnostic module	*Body Harness Routing - Left Front of Passenger Compartment*	-
J384	Body Harness	-	In the passenger compartment, forward of middle, just right of center, between the driver and passenger seat, in a formed conduit, approximately 54cm (21 inches) from the break-out to the inflatable restraint and diagnostic module	*Body Harness Routing - Left Front of Passenger Compartment*	-
J385	Body Harness	ULT	In the passenger compartment, forward of middle, center, between the driver and passenger seat, in a formed conduit, approximately 11cm (4.5 inches) from the break-out to the multi-axis acceleration sensor	*Body Harness Routing - Left Front of Passenger Compartment*	-
J401	Body Harness	ATN or ATT	In the rear compartment, rear, right side, along the D-pillar, approximately 6cm (2.5 inches) from the break-out to the right rear accessory power receptacle	*Body Harness Routing - Right Rear of Passenger Compartment*	-
J402	Body Harness	-	In the rear compartment, rear, right side, just forward of the D-pillar, approximately 16cm (6.5 inches) from the break-out to the right glass breakage sensor	*Body Harness Routing - Right Rear of Passenger Compartment*	-

J403	Body Harness	K59, TC2, UEU, UFL, UGN or UKC	In the rear compartment, rear, right side, along the D-pillar, approximately 8cm (3 inches) from the break-out to the right rear accessory power receptacle	*Body Harness Routing - Right Rear of Passenger Compartment*	-
J404	Body Harness	ATT or ATN	In the rear compartment, rear, right side, along the D-pillar, on the break-out to X495, approximately 6cm (2.5 inches) from the main harness bundle	*Body Harness Routing - Right Rear of Passenger Compartment*	-
J410	Left Tail Lamp Harness	-	At rear of vehicle, left, within the tail lamp assembly - left	-	-
J420	Right Tail Lamp Harness	-	At rear of vehicle, right, within the tail lamp assembly - right	-	-
J441	Chassis Harness	IK9	Underside of the vehicle, right frame rail, at rear of vehicle, approximately 5cm (2 inches) forward of break-out for X420	*Chassis Harness Routing*	
J442	Chassis Harness	IK9	Underside of the vehicle, right frame rail, at rear of vehicle, approximately 12.5cm (5 inches) forward of break-out for X420	*Chassis Harness Routing*	
J449	Chassis Harness	IK9 or JL1	Underside of the vehicle, left frame rail, at rear of vehicle, approximately 20cm (7.75 inches) forward of break-out for the left rear speed sensor	*Chassis Harness Routing*	-
J450	Chassis Harness	-	Underside of the vehicle, left frame rail, at rear of vehicle, approximately 17cm (6.75 inches) rearward of break-out for the fuel pump driver control module	*Chassis Harness Routing*	-
J451	Chassis Harness	BRS, JL1, Z85 or Z95	Underside of the vehicle, left frame rail, at rear of vehicle, approximately 14cm (5.50 inches) forward of break-out for the left rear speed sensor	*Chassis Harness Routing*	-
J455	HVAC Rear Harness	D07	In the passenger compartment, forward of middle, near center, between driver and passenger seat, in the rear HVAC harness	-	-
J460	Body Harness	ATN or ATT	In the rear compartment, rear, left side, below rear quarter glass, approximately 42cm (16.75 inches) from the break-out to the glass breakage sensor	*Body Harness Routing - Left Rear of Passenger Compartment*	-
J461	Body Harness	UQS	In the rear compartment, rear, left side, below rear quarter glass, approximately 15cm (6 inches) from the break-out to the glass breakage sensor	*Body Harness Routing - Left Rear of Passenger Compartment*	-
J462	Body Harness	UQS	In the rear compartment, rear, left side, below rear quarter glass, approximately 6cm (2.25 inches) from the break-out to the glass breakage sensor	*Body Harness Routing - Left Rear of Passenger Compartment*	-
J490	Rear Bumper Harness	UD5 or UD7	At rear of vehicle, right side, approximately 3.5cm (1.5 inches) from the break-out to the right side object sensor module	*Rear Bumper Harness Routing (X88 or Z88)*	-
J491	Euro Trailer Harness	VQ9	In Euro Trailer Harness	-	-
J493	Rear Bumper Harness	T79	At rear of vehicle, right side, approximately 26.5cm (10.25 inches) from the break-out to the right middle rear object sensor	*Rear Bumper Harness Routing (X88 or Z88)*	-

J494	Rear Bumper Harness	Z75 with UGN	At rear of vehicle, right side, approximately 4.5cm (2 inches) from the break-out to the right outer rear object sensor	*Rear Bumper Harness Routing (Z75)*	-
J495	Rear Bumper Harness	UD5 or UD7	At rear of vehicle, right side, approximately 6.5cm (2.5 inches) from the break-out to the right outer rear object sensor	*Rear Bumper Harness Routing (X88 or Z88)*	-
J498	Rear Bumper Harness	UKC	At rear of vehicle, right side, approximately 12.5cm (5 inches) from the break-out to the right middle rear object sensor	*Rear Bumper Harness Routing (X88 or Z88)*	-
J499	Rear Bumper Harness	T79, UKC or UGN with Z75	At rear of vehicle, right side, approximately 15cm (6 inches) from the break-out to the right outer rear object sensor	*Rear Bumper Harness Routing (X88 or Z88)*	-
J511	Driver Door Harness	HD7	In the driver door, near front, approximately 12.5cm (5 inches) from the break-out to X505	-	-
J515	Driver Door Harness	-	In the driver door, near front, approximately 5cm (2 inches) from the break-out to X505	*Driver Door Harness Routing*	-
J516	Driver Door Trim Harness	-	In the driver door, near front, approximately 6cm (2.5 inches) from the break-out to the outside rearview mirror switch	*Driver Door Harness Routing*	-
J517	Left Outside Rearview Mirror Harness	DL3, DR4 or UKC	On outside of driver door, front middle, forward of window opening	-	-
J518	Driver Door Trim Harness	Z75	In the driver door, near middle, approximately 4cm (1.5 inches) from the break-out to the driver seat memory switch	*Driver Door Harness Routing*	-
J519	Driver Door Trim Harness	-	In the driver door, near middle, approximately 1.5cm (0.5 inches) from the break-out to the outside rearview mirror switch	*Driver Door Harness Routing*	-
J520	Driver Door Trim Harness	Z75	In the driver door, near middle, approximately 7cm (3 inches) from the break-out to the driver door accent lamp	*Driver Door Harness Routing*	-
J550	Driver Door Harness	-	In the driver door, near front, approximately 17cm (6.75 inches) from the break-out to the driver window motor	-	-
J611	Passenger Door Harness	HD7	In the passenger door, near front, approximately 12cm (5 inches) from the break-out to X605	*Passenger Door Harness Routing*	-
J615	Passenger Door Harness	-	In the passenger door, near front, approximately 5cm (2 inches) from the break-out to X605	*Passenger Door Harness Routing*	-
J616	Passenger Door Trim Harness	-	In the passenger door, near front, approximately 16.5cm (6.5 inches) from the break-out to the passenger window switch	*Passenger Door Harness Routing*	-
J617	Right Outside Rearview Mirror Harness	DL3, DR4 or UKC	On outside of passenger door, front middle, forward of window opening	-	-
J620	Passenger Door Trim Harness	Z75	In the passenger door, near front, approximately 12cm (4.5 inches) from the break-out to the passenger window switch	*Passenger Door Harness Routing*	-
J710	Left Rear Door Harness	UQH	In the left rear door, near front, approximately 10cm (4 inches) from the break-out to the left rear window switch	*Left Rear Door Harness Routing*	-

J711	Left Rear Door Harness	UQH	In the left rear door, near front, approximately 18cm (7.25 inches) from the break-out to the left rear door speaker	*Left Rear Door Harness Routing*	-
J715	Left Rear Door Harness	-	In the left rear door, near front, approximately 3.5cm (1.25 inches) from the break-out to the left rear window switch	*Left Rear Door Harness Routing*	-
J716	Left Rear Door Trim Harness	Z75	In the left rear door, near middle, approximately 3cm (1.25 inches) from the break-out to the left rear door pocket flood lamp	*Left Rear Door Harness Routing*	-
J720	Left Rear Door Trim Harness	Z75	In the left rear door, near middle, approximately 7cm (2.75 inches) from the break-out to the left rear door pocket flood lamp	*Left Rear Door Harness Routing*	-
J810	Right Rear Door Harness	UQH	In the right rear door, near front, approximately 10cm (4 inches) from the break-out to the right rear window switch	*Right Rear Door Harness Routing*	-
J811	Right Rear Door Harness	UQH	In the right rear door, near front, approximately 18cm (7.25 inches) from the break-out to the right rear door speaker	*Right Rear Door Harness Routing*	-
J815	Right Rear Door Harness	-	In the right rear door, near front, approximately 3.5cm (1.25 inches) from the break-out to the right rear window switch	*Right Rear Door Harness Routing*	-
J816	Right Rear Door Trim Harness	Z75	In the right rear door, near middle, approximately 3cm (1.25 inches) from the break-out to the right rear door pocket flood lamp	*Right Rear Door Harness Routing*	-
J820	Right Rear Door Trim Harness	Z75	In the right rear door, near middle, approximately 7cm (2.75 inches) from the break-out to the right rear door pocket flood lamp	*Right Rear Door Harness Routing*	-
J901	Liftgate Harness	-	In the liftgate, top, right side, in the harness break-out to the defogger grid, approximately 34cm (13.25 Inches) from the defogger grid connector	*Liftgate Harness Routing*	-
J902	Liftgate Harness	-	In the liftgate, top, left side, approximately 5cm (2 Inches) from the break-out to the defogger grid connector	*Liftgate Harness Routing*	-
J903	Liftgate Harness	TB5	In the liftgate, near center, just left of center, approximately 10cm (4 Inches) from the break-out to the liftgate latch assembly	*Liftgate Harness Routing*	-
J904	Liftgate Harness	-	In the liftgate, near center of tailgate, approximately 10cm (4 Inches) from the break-out to the right license plate lamp	*Liftgate Harness Routing*	-
JX200	Splice Pack – Instrument Panel	—	In the passenger compartment, forward, at the rear of the instrument panel, left side of the driver side foot well	*Instrument Panel Harness Routing - Rear of Instrument Panel*	*JX200 Splice Pack - Instrument Panel*
JX300	Splice Pack – Body	—	In the passenger compartment, at the base of the right A-pillar behind the trim panel	*Body Harness Routing - Right Front of Passenger Compartment*	*JX300 Splice Pack - Body*

Front of Vehicle Components (Z75)



Items

1. A9B Outside Rearview Mirror - Passenger
2. E8YP Outside Rearview Mirror Courtesy Lamp - Passenger (DL3 or DR4)
3. T4G Cellular Phone, Navigation, and Digital Radio Antenna (U2M with UE1)
4. E8YD Outside Rearview Mirror Courtesy Lamp - Driver (DL3 or DR4)
5. A9A Outside Rearview Mirror - Driver
6. E4C Daytime Running Lamp - Left (Z75)
7. E13LA Headlamp Assembly - Left
8. E4AL Park/Daytime Running Lamp - Left Lower (Z75)
9. E4LF Turn Signal Lamp - Left Front

10. B78A Front Object Sensor - Left Outer (UD5)

11. B9 Ambient Air Temperature Sensor

12. B78C Front Object Sensor - Left Middle (UD5)

13. B233B Radar Sensor Module - Long Range (UGN with Z75)

14. B78D Front Object Sensor - Right Middle (UD5)

15. B78B Front Object Sensor - Right Outer (UD5)

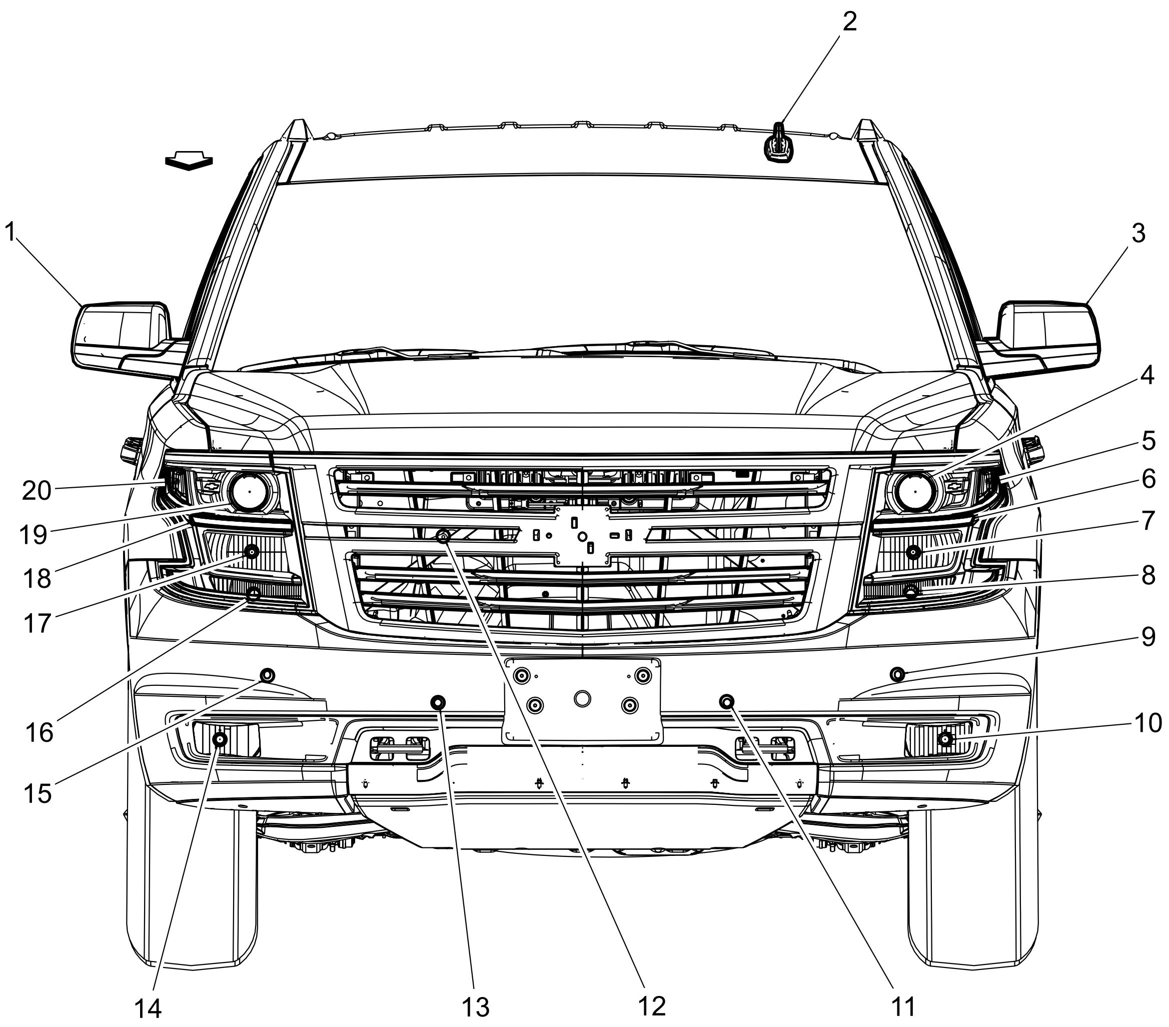
16. E4RF Turn Signal Lamp - Right Front

17. E4AM Park/Daytime Running Lamp - Right Lower (Z75)

18. E13RA Headlamp Assembly - Right

19. E4D Daytime Running Lamp - Right (Z75)

Front of Vehicle Components (X88)



Items

1. A9B Outside Rearview Mirror - Passenger

2. T4G Cellular Phone, Navigation, and Digital Radio Antenna (U2M with UE1)

3. A9A Outside Rearview Mirror - Driver

4. E4G Headlamp - Left Low Beam

5. E2LF Side Marker Lamp - Left Front

6. E4AC Park/Daytime Running Lamp - Left (X88 or Z88)

7. E4E Headlamp - Left High Beam

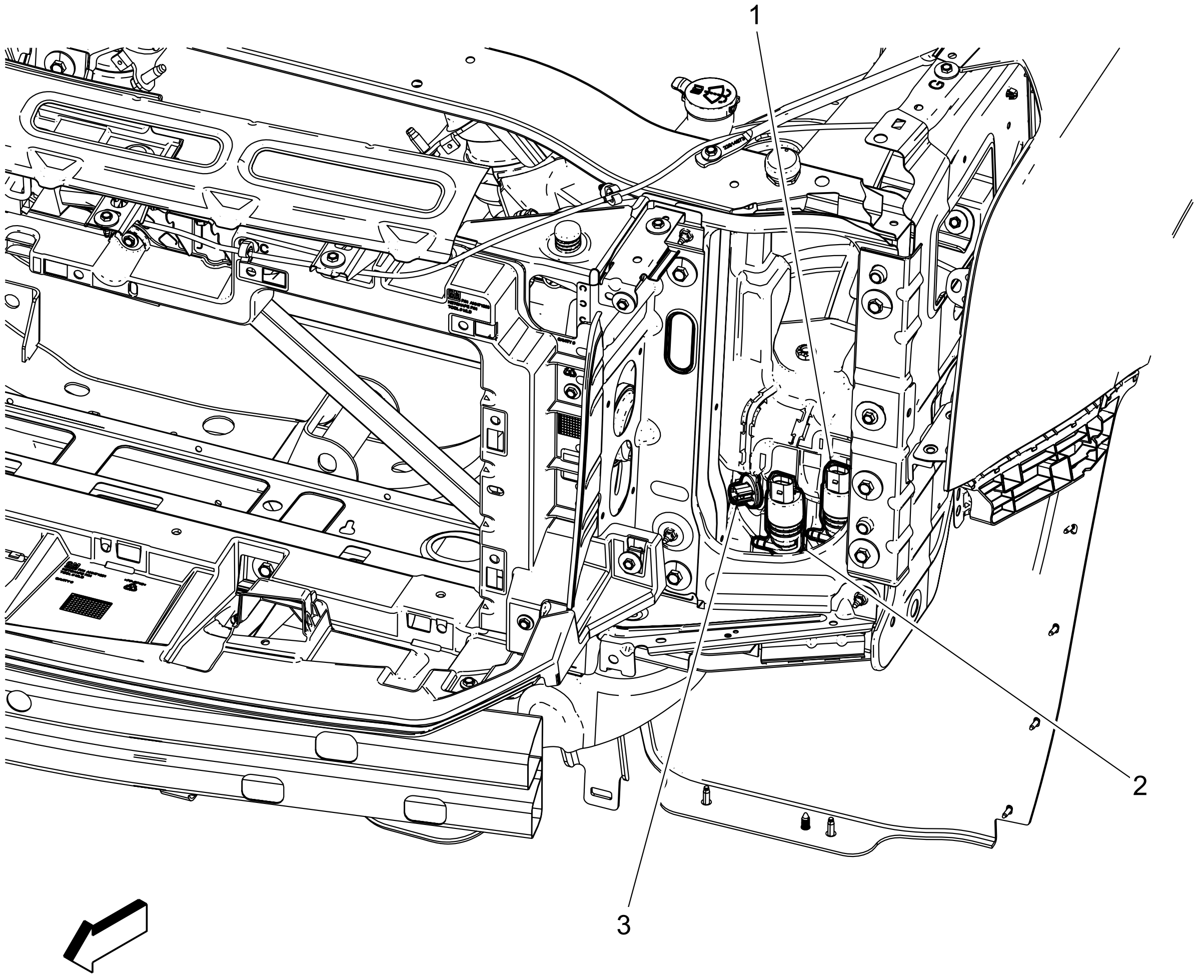
8. E4LF Turn Signal Lamp - Left Front

9. B78A Front Object Sensor - Left Outer (UD5)

10. E29LF Fog Lamp - Left Front (T3U)

11. B78C Front Object Sensor - Left Middle (UD5)
12. B9 Ambient Air Temperature Sensor
13. B78D Front Object Sensor - Right Middle (UD5)
14. E29RF Fog Lamp - Right Front (T3U)
15. B78B Front Object Sensor - Right Outer (UD5)
16. E4RF Turn Signal Lamp - Right Front
17. E4F Headlamp - Right High Beam
18. E4AD Park/Daytime Running Lamp - Right (X88 or Z88)
19. E4H Headlamp - Right Low Beam
20. E2RF Side Marker Lamp - Right Front

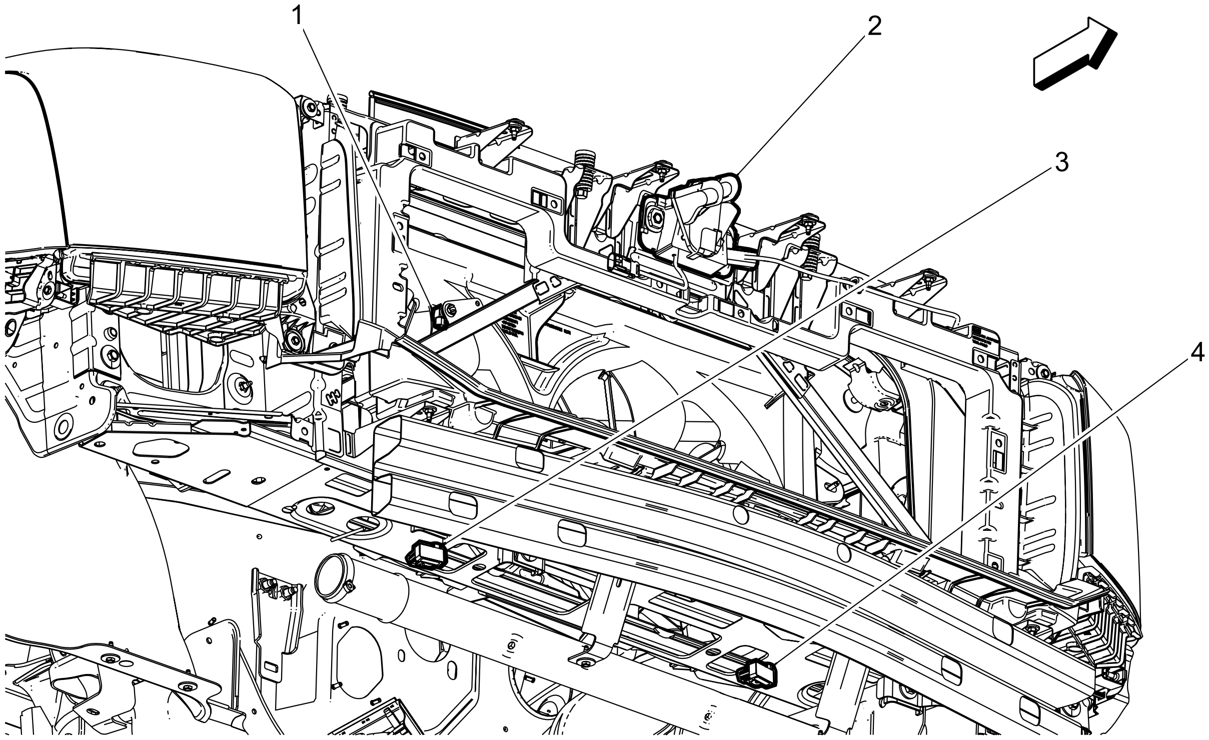
Left Front Corner of Vehicle Components



Items

1. G19 Rear Window Washer Pump
2. G24 Windshield Washer Pump
3. B118B Windshield Washer Fluid Level Switch

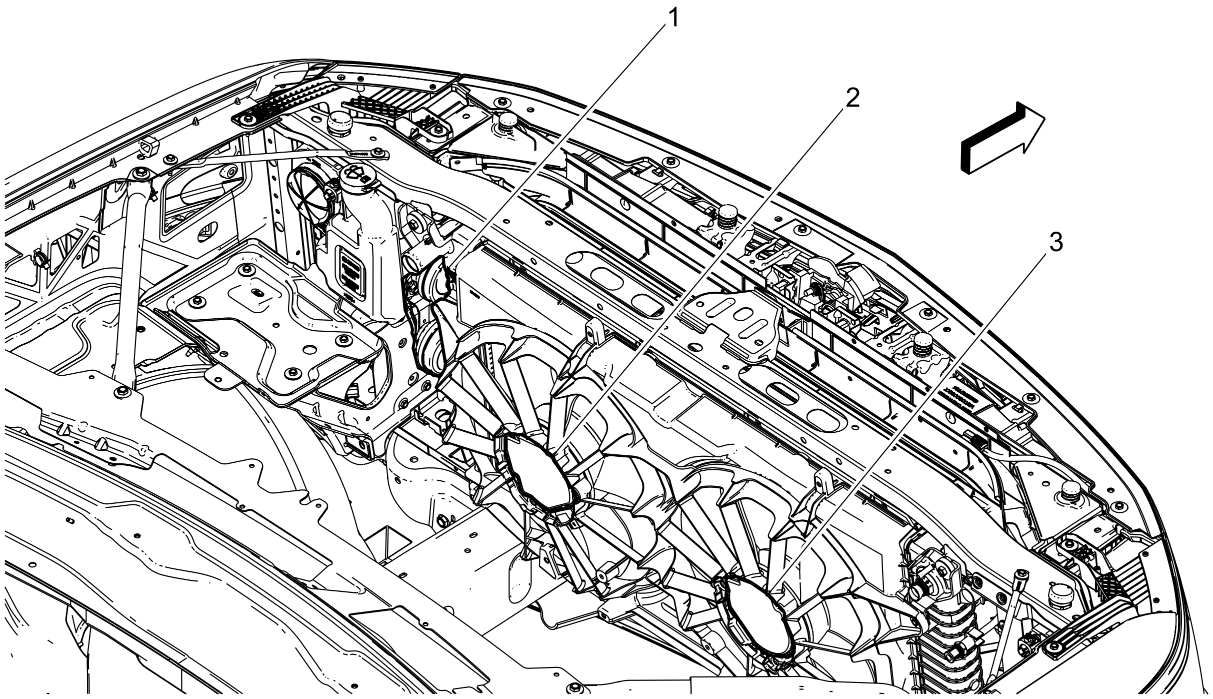
Behind Front Fascia Components (Z75)



Items

1. B9 Ambient Air Temperature Sensor
2. B55 Hood Ajar Switch
3. B59R Front Impact Sensor - Right
4. B59L Front Impact Sensor - Left

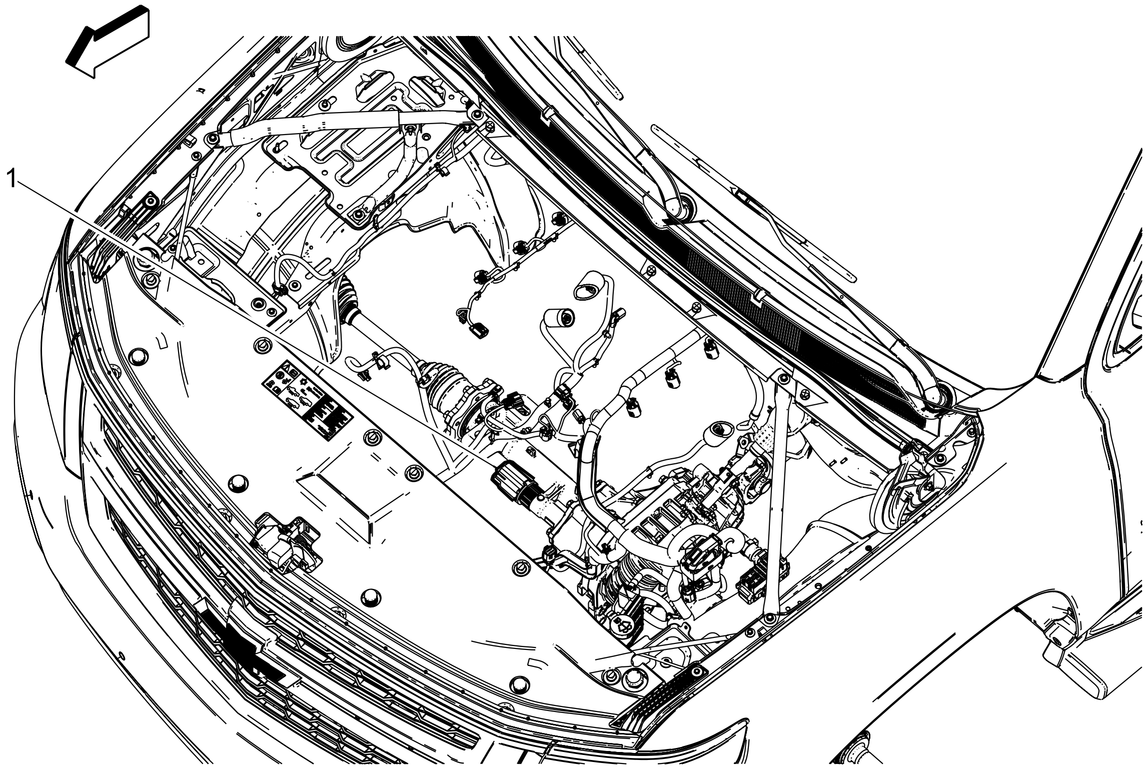
Cooling Fans



Items

1. P12 Horn
2. G10L Cooling Fan Motor - Left
3. G10R Cooling Fan Motor - Right

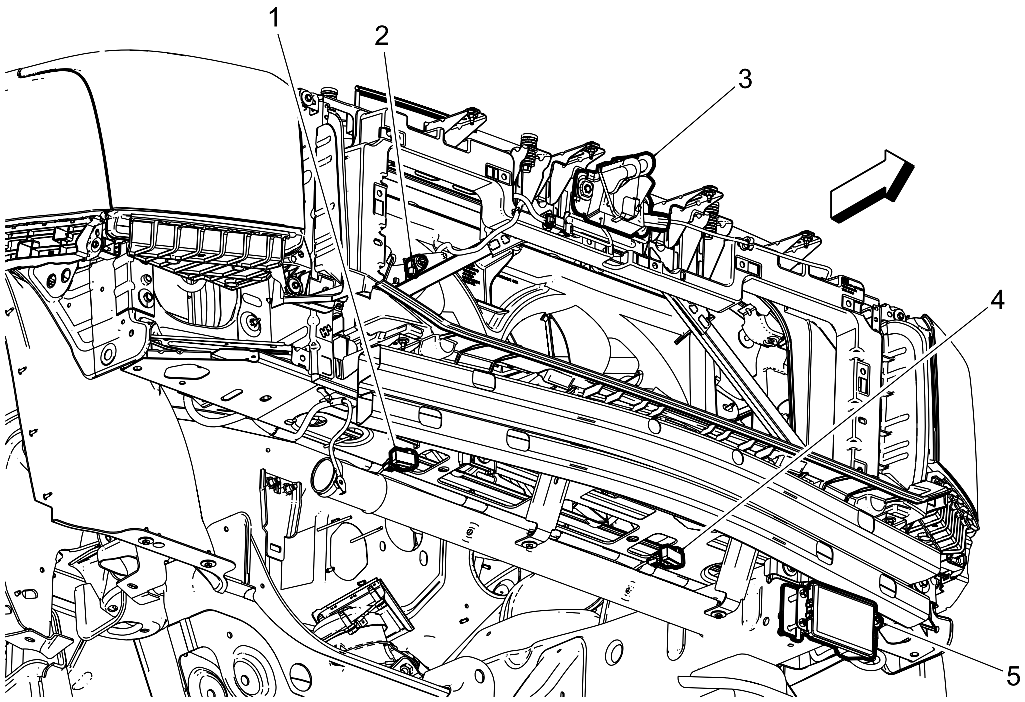
Front Axle Components



Items

1. M26 Front Axle Engagement Actuator (NP0 or NQH)

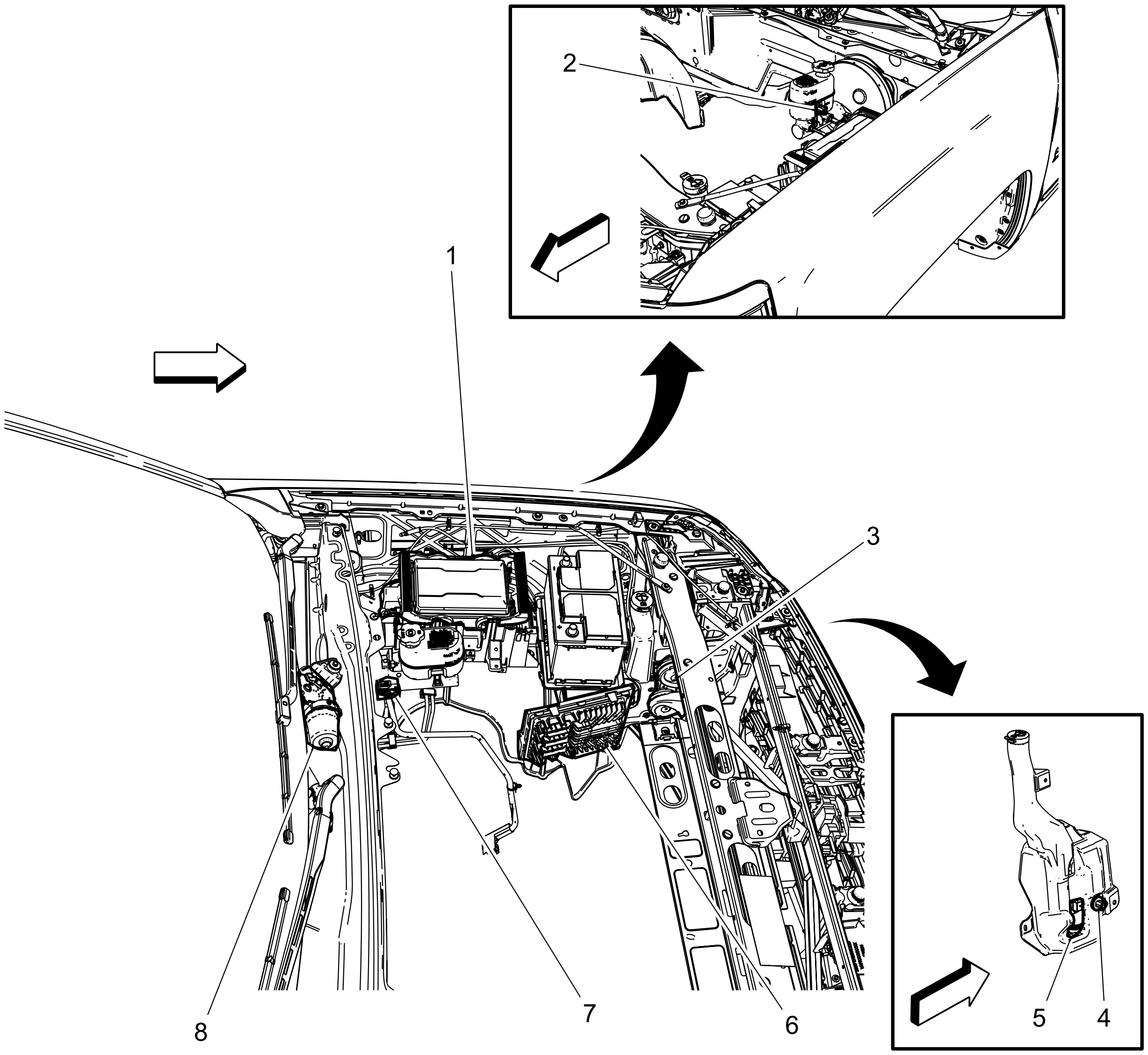
Behind Front Fascia Components (X88/Z88)



Items

1. B59R Front Impact Sensor - Right
2. B9 Ambient Air Temperature Sensor
3. B55 Hood Ajar Switch
4. B59L Front Impact Sensor - Left
5. K14 Distance Sensing Cruise Control Module (K59)

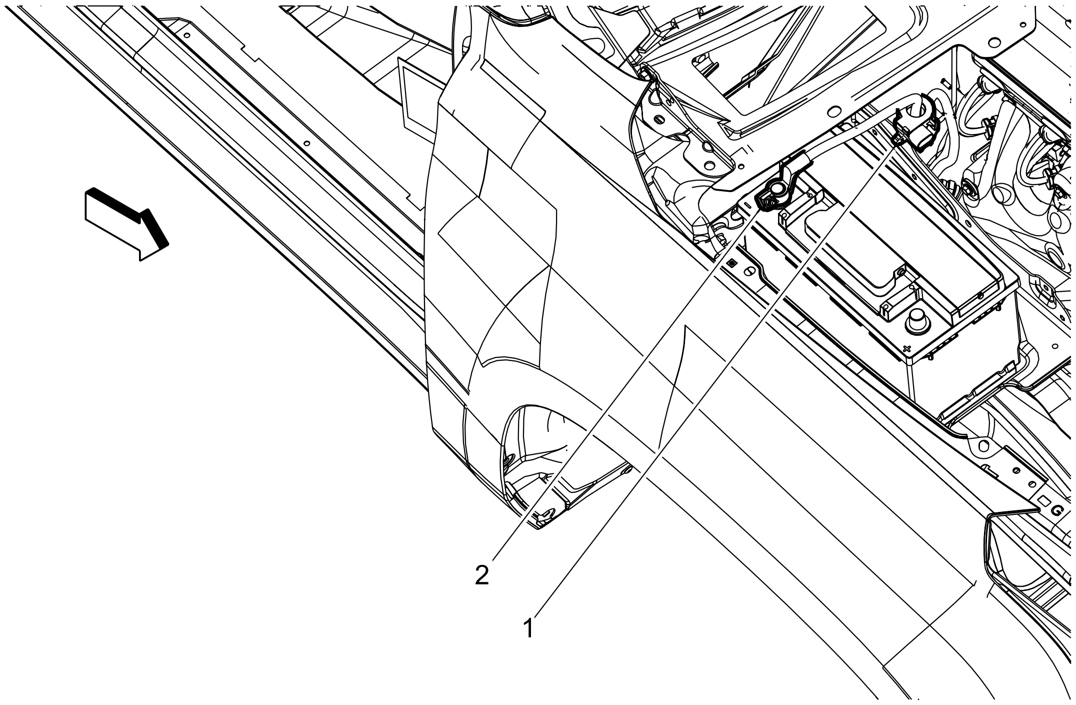
Left Side of Engine Compartment Component View



Items

1. X50A Fuse Block - Underhood
2. B20 Brake Fluid Level Switch
3. P12 Horn
4. B118B Windshield Washer Fluid Level Switch
5. G24 Windshield Washer Pump
6. K20 Engine Control Module
7. B19B Brake Booster Vacuum Sensor
8. M75 Windshield Wiper Motor

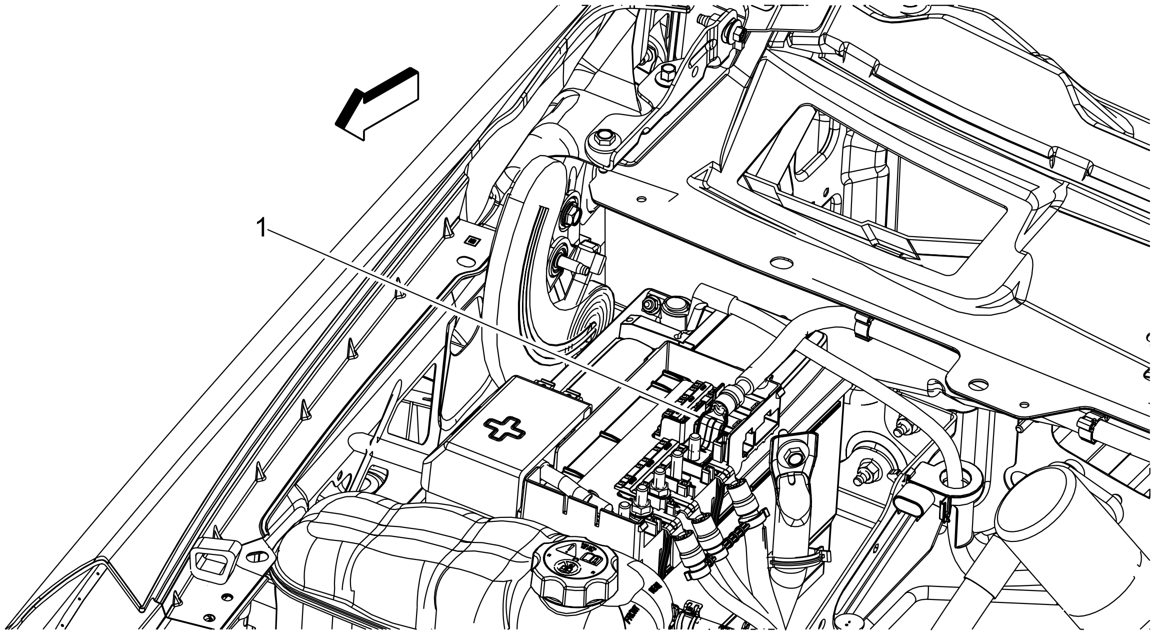
Right Rear of Engine Compartment Components (1 of 2)



Items

1. B18 Battery Current Sensor
2. C1 Battery

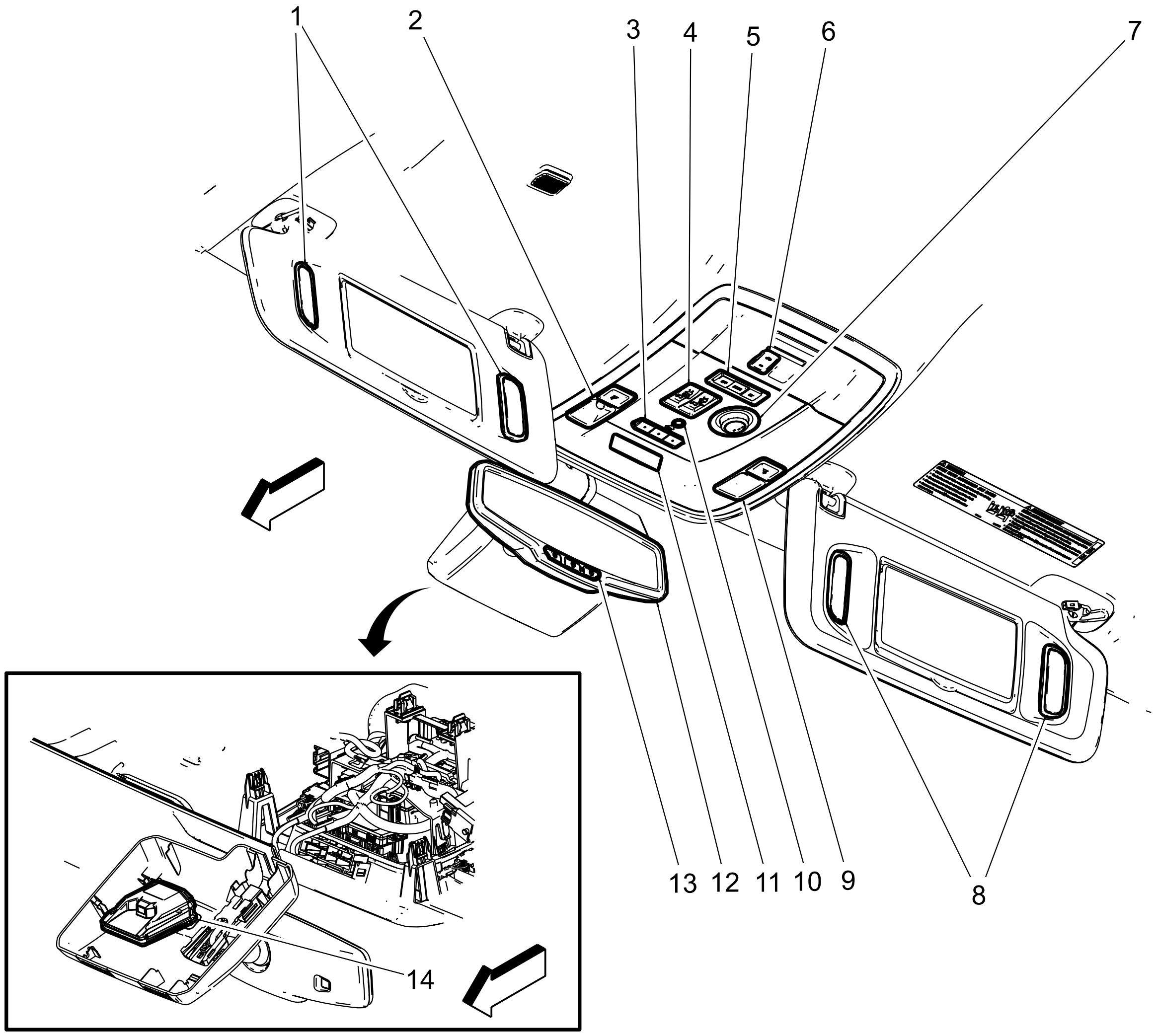
Right Rear of Engine Compartment Components (2 of 2)



Items

1.	X50D Fuse Block - Battery

Overhead Console Components



Items

1. E31L Sunshade Mirror Lamp - Left
2. E37EL Dome/Reading Lamps - Front Overhead Console Left
3. S25 Garage Door Opener (UG1)
4. S72 Sunroof Switch (CF5)
5. S12 Dome Lamp Switch
6. S43 Content Theft Deterrent Sensor Disable Switch (UTT)
7. S45B Liftgate Control Switch - Interior (TB5)
8. E31R Sunshade Mirror Lamp - Right
9. E37ER Dome/Reading Lamps - Front Overhead Console Right
10. E38 Flood Lamp - Center Console

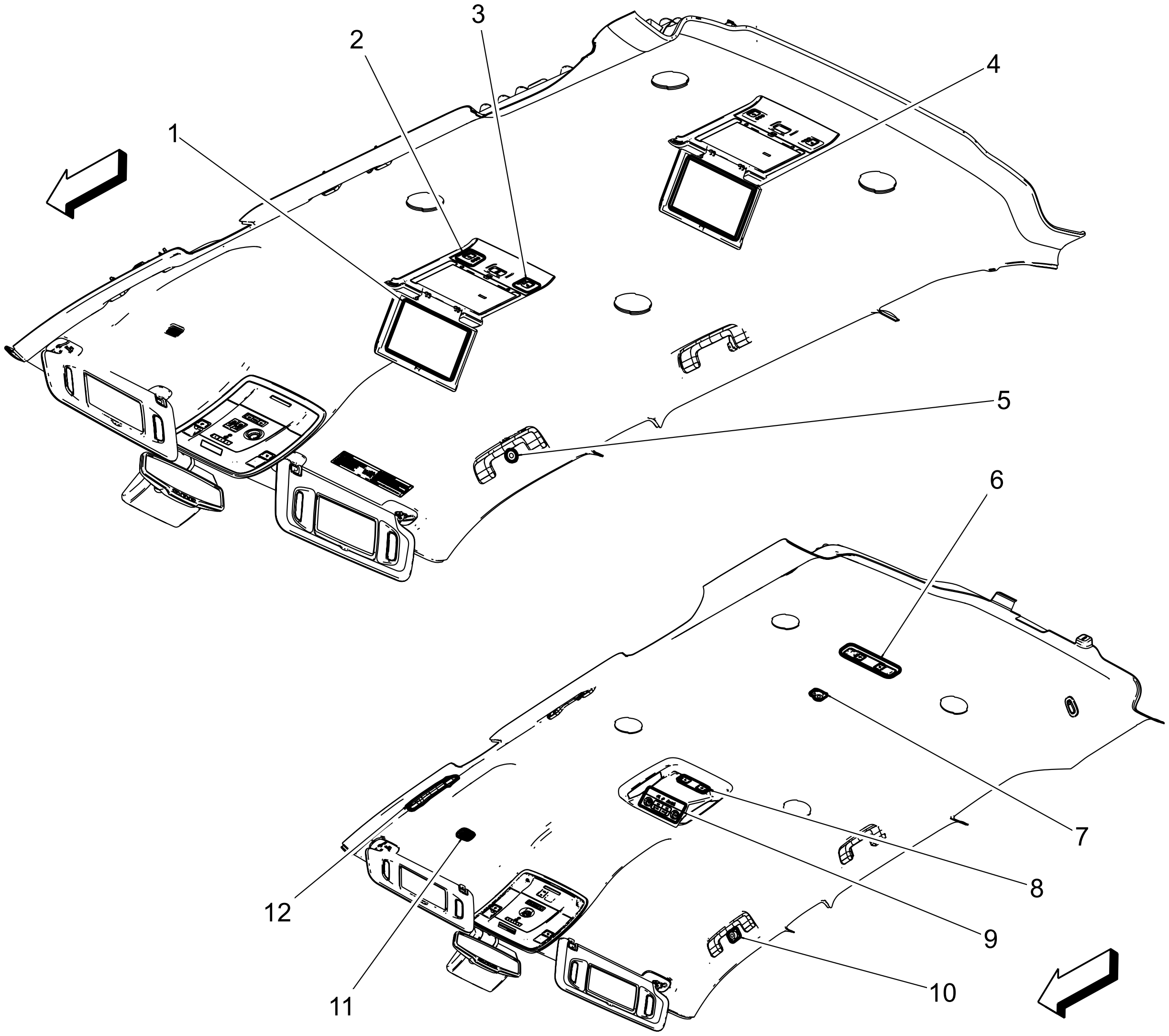
11. P14 Passenger Air Bag Disabled Indicator

12. A10 Inside Rearview Mirror

13. S51 Telematics Button Assembly (UE1)

14. K109 Frontview Camera Module

Headliner Components



Items

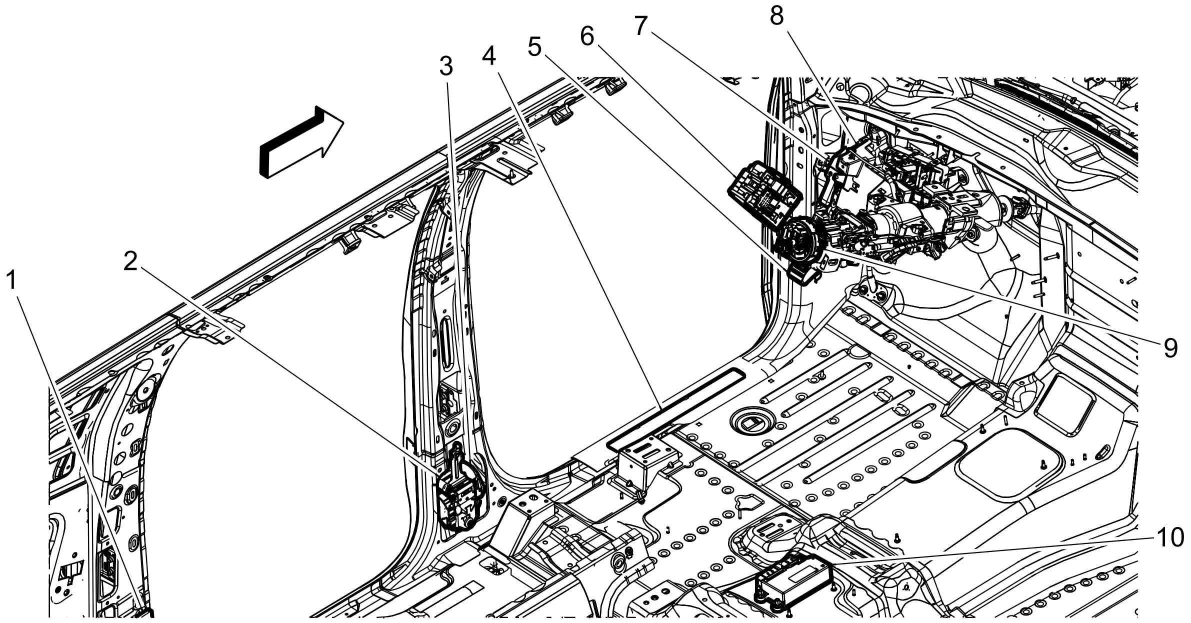
1. P22A Video Display - 2nd Row (U42)
2. E37H Dome/Reading Lamps - Left Roof Rail (U42)
3. E37J Dome/Reading Lamps - Right Roof Rail (U42)
4. P22B Video Display - 3rd Row (DNU)
5. B77RF Radio Volume Compensator Interior Noise Microphone - Right Front (NKC)
6. E37C Dome/Reading Lamps - 3rd Row
7. B77R Radio Volume Compensator Interior Noise Microphone - Rear (NKC)
8. E37B Dome/Reading Lamps - 2nd Row (without U42)
9. A34 HVAC Controls - Auxiliary
10. B77RF Radio Volume Compensator Interior Noise Microphone

10. B77RF Radio Volume Compensator Interior Noise Microphone - Right Front (NKC)

11. B24 Cellular Phone Microphone

12. B77LF Radio Volume Compensator Interior Noise Microphone - Left Front (NKC)

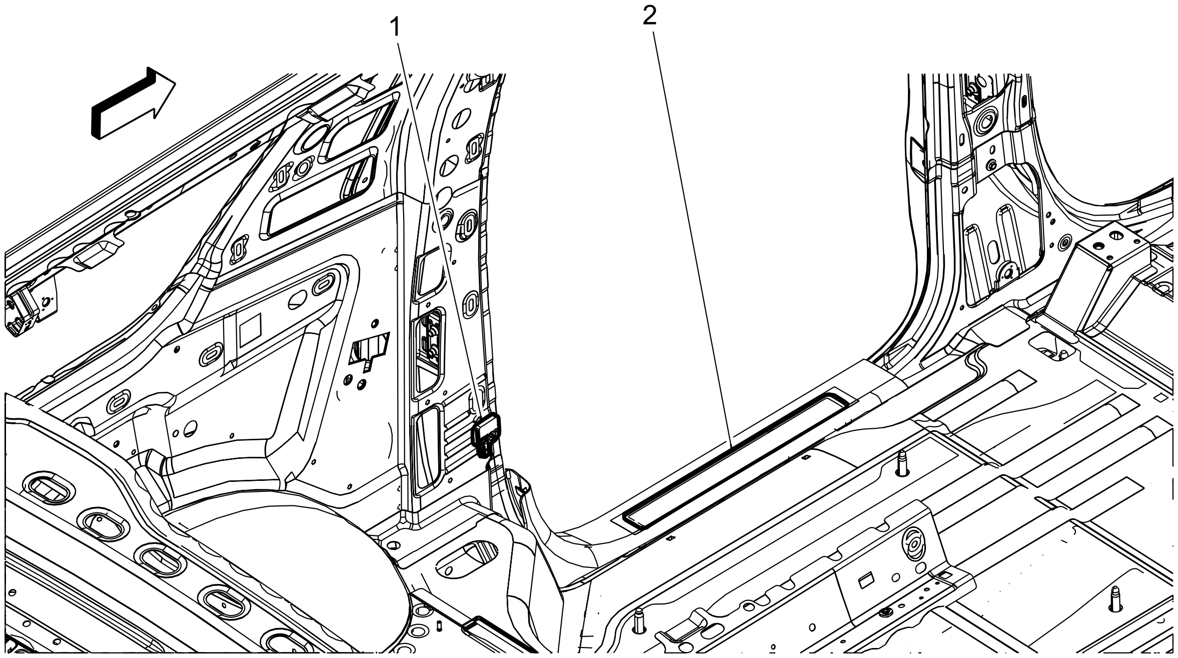
Left Front of Passenger Compartment Views (Z75)



Items

1. B63LR Side Impact Sensor - Left Rear
2. F112D Seat Belt Retractor Pretensioner - Driver
3. M101L Seat Belt Retractor Motor Module - Left (AX7)
4. E8A Door Sill Plate Lamp - Driver (Z75)
5. B80 Park Brake Switch
6. X51L Fuse Block - Instrument Panel Left
7. K157 Video Processing Control Module (UVH)
8. K9 Body Control Module
9. X85 Steering Wheel Air Bag Coil
10. K36 Inflatable Restraint Sensing and Diagnostic Module

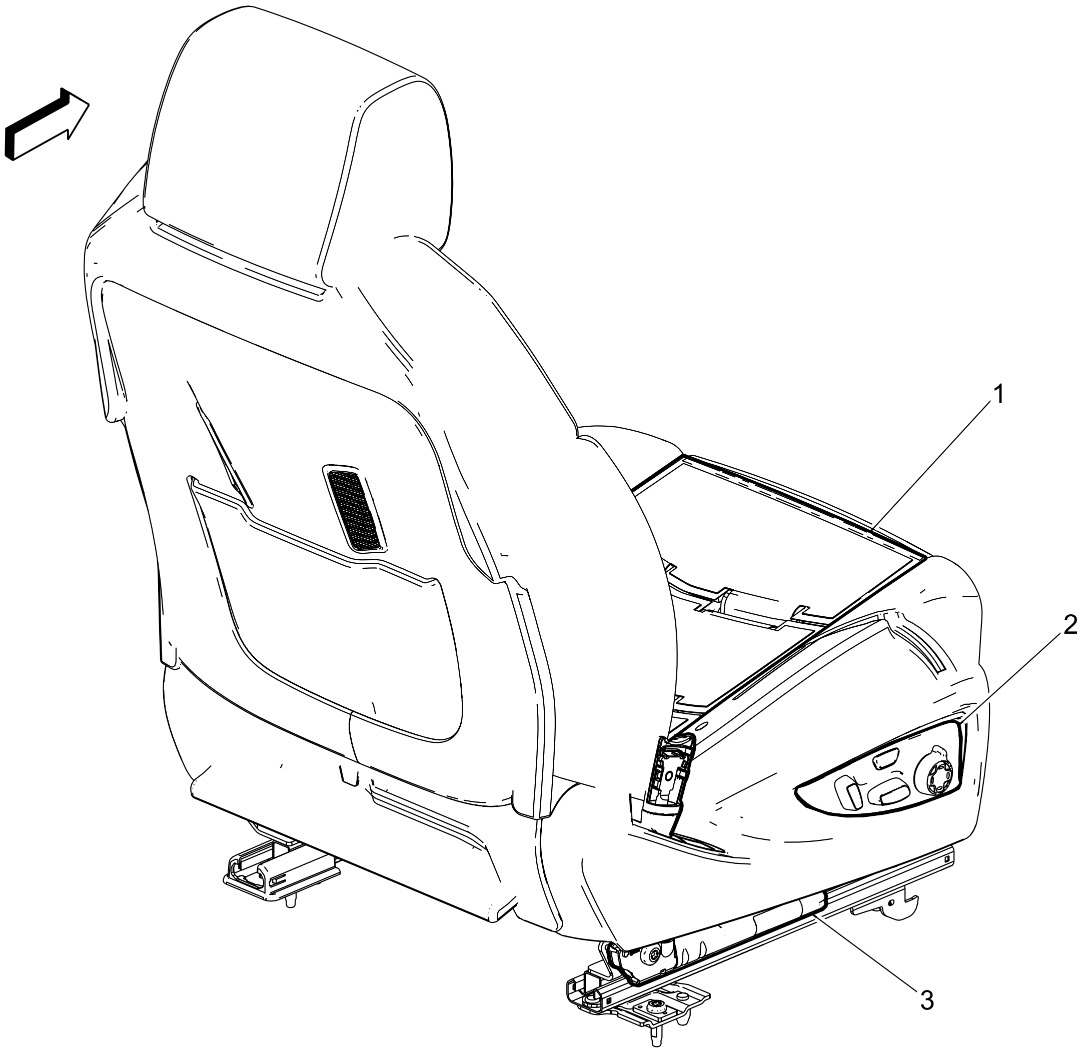
Left Rear of Passenger Compartment Views (Z75)



Items

1. B63LR Side Impact Sensor - Left Rear
2. E8Q Door Sill Plate Lamp - Left Rear (Z75)

Passenger Seat Components View



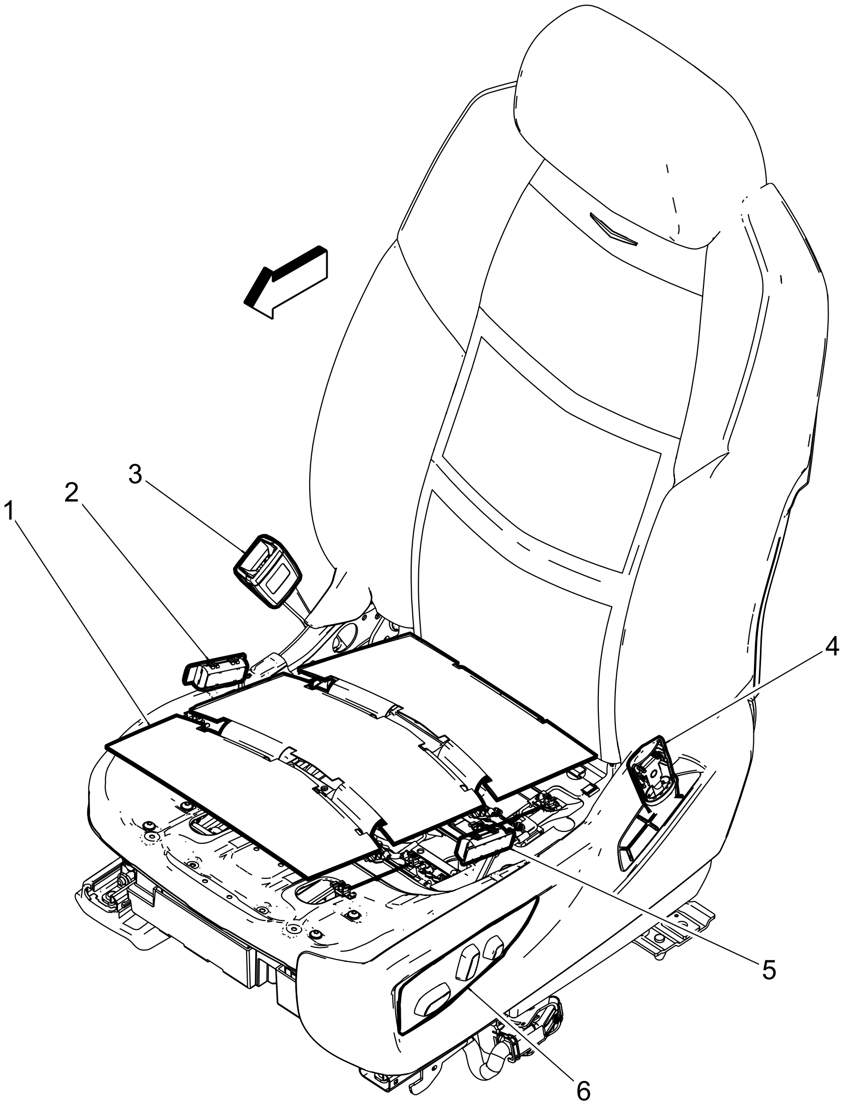
Items

1. E14D Seat Heating Element - Passenger Cushion (KA1 or KB6)

2. S64P Seat Adjuster Switch - Passenger

3. F113P Seat Belt Anchor Pretensioner - Passenger

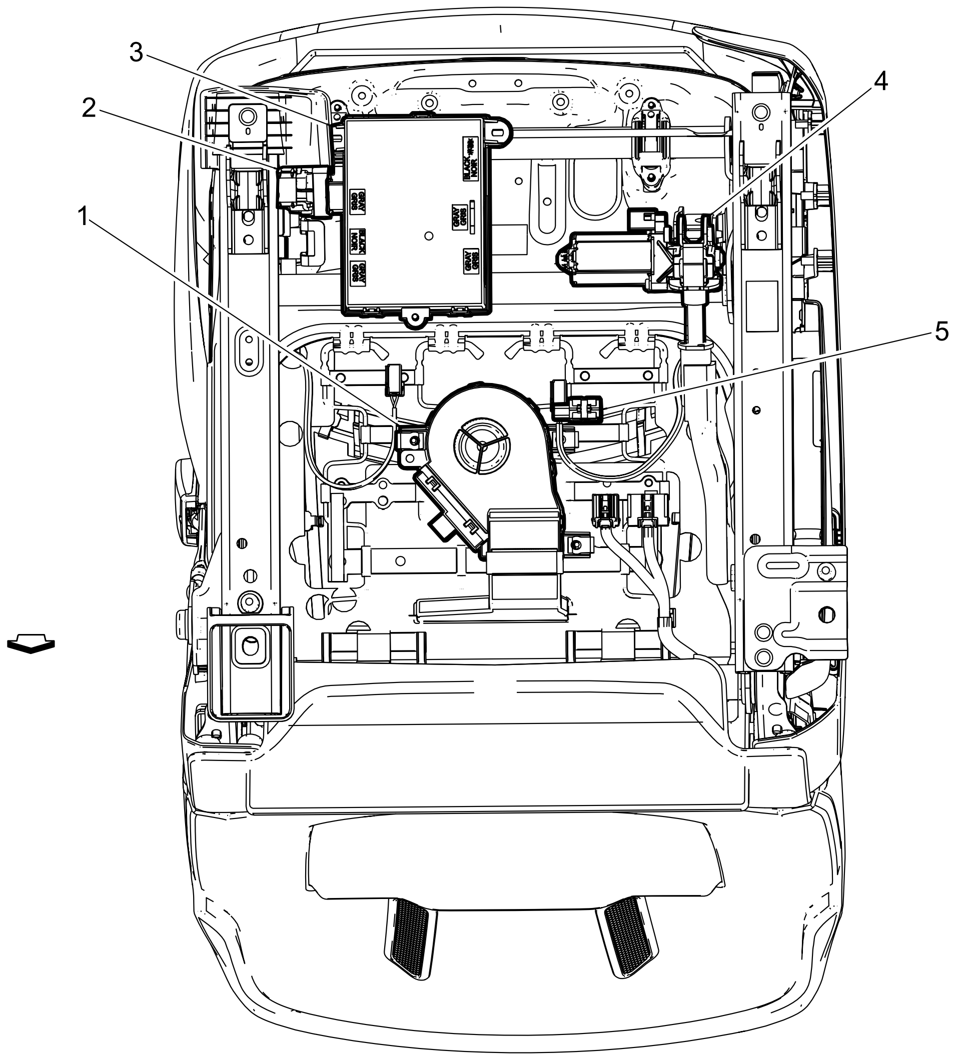
Left Front of Driver Seat Component Views



Items

1. E14B Seat Heating Element - Driver Cushion (KA1 or KB6)
2. P45RH
3. B88D Seat Belt Switch - Driver
4. F113D Seat Belt Anchor Pretensioner - Driver
5. P45LR Seat Haptic Movement Motor - Driver Left Rear (Z75 with UGN)
6. S64D Seat Adjuster Switch - Driver

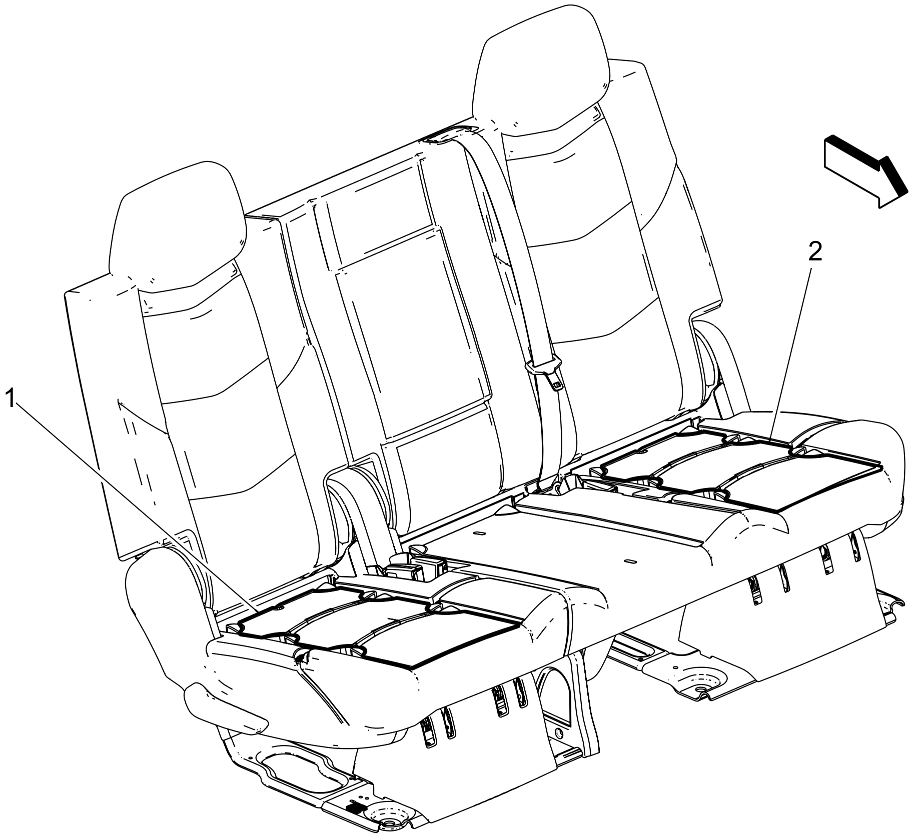
Driver Seat Bottom Component Views



Items

1. K55D Seat Blower Assembly - Driver Cushion (KB6)
2. M50D Seat Front Vertical Motor - Driver
3. K40D Seat Memory Control Module - Driver (A45 or ULT)
4. M55D Seat Rear Vertical Motor - Driver
5. E1A Accent Lamp - Driver Seat

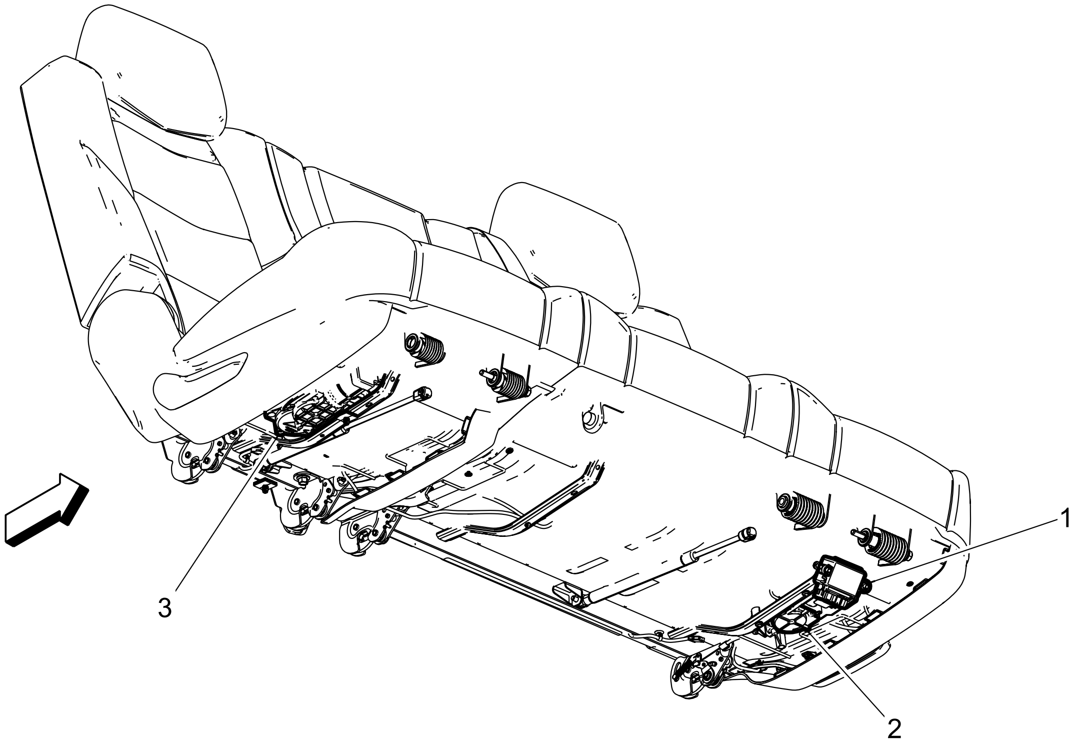
2nd Row Seat Cushions Component Views



Items

1. E14H Seat Heating Element - Right Rear Cushion (KA6)
2. E14F Seat Heating Element - Left Rear Cushion (KA6)

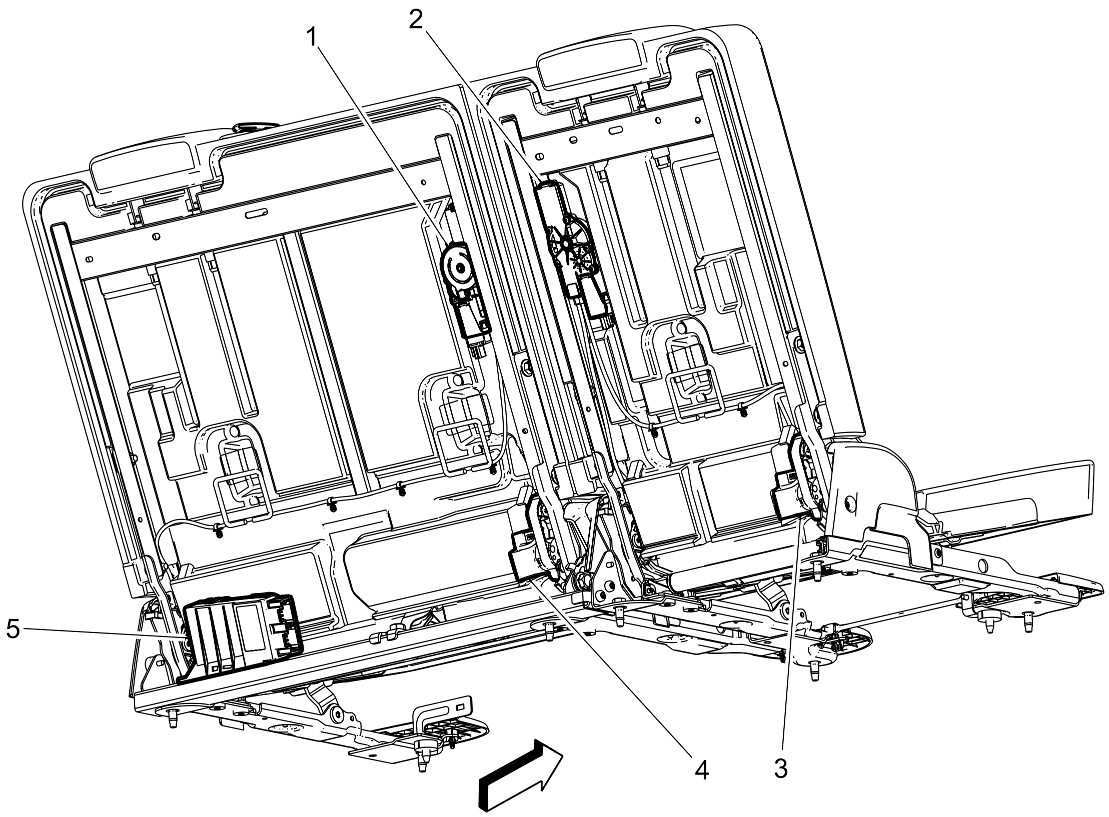
2nd Row Bench Seat Cushions Bottom Component Views



Items

1. K29R Seat Heating Control Module - Rear (KA6)
2. M107LR (ATN or ATT)
3. M107RR (ATN or ATT)

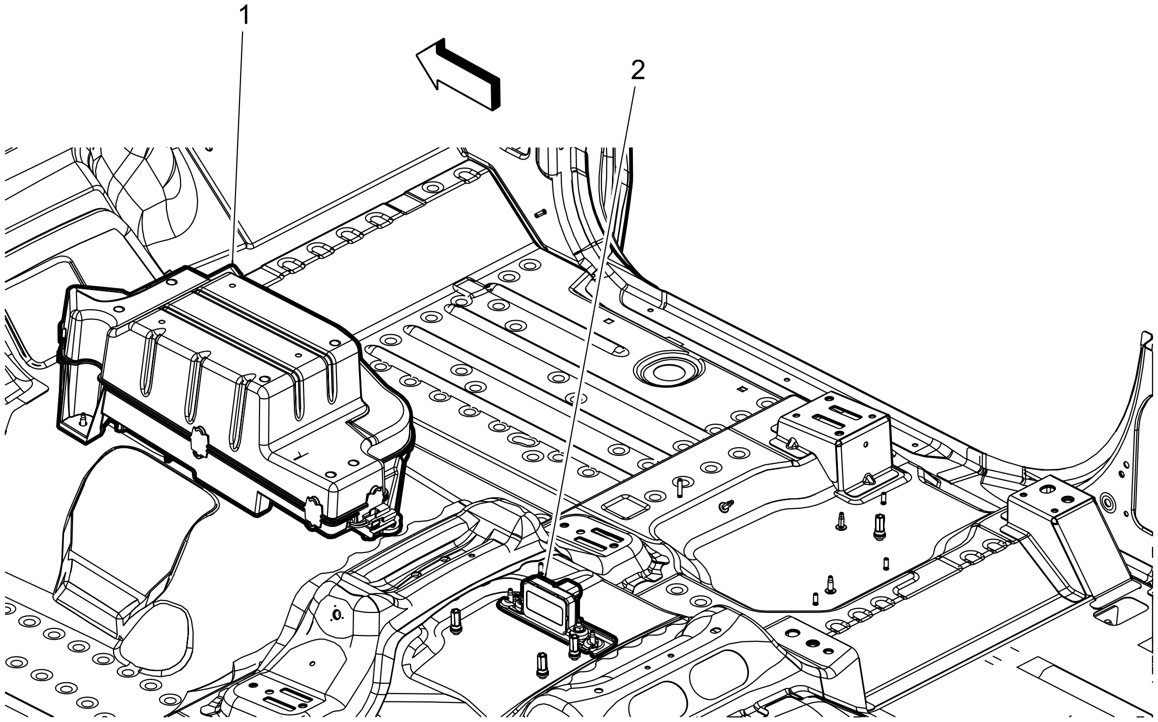
3rd Row Seat Back Component Views



Items

1. M109LR (AS8)
2. M109RR (AS8)
3. M108RR (AS8)
4. M108LR (AS8)
5. K169 (AS8)

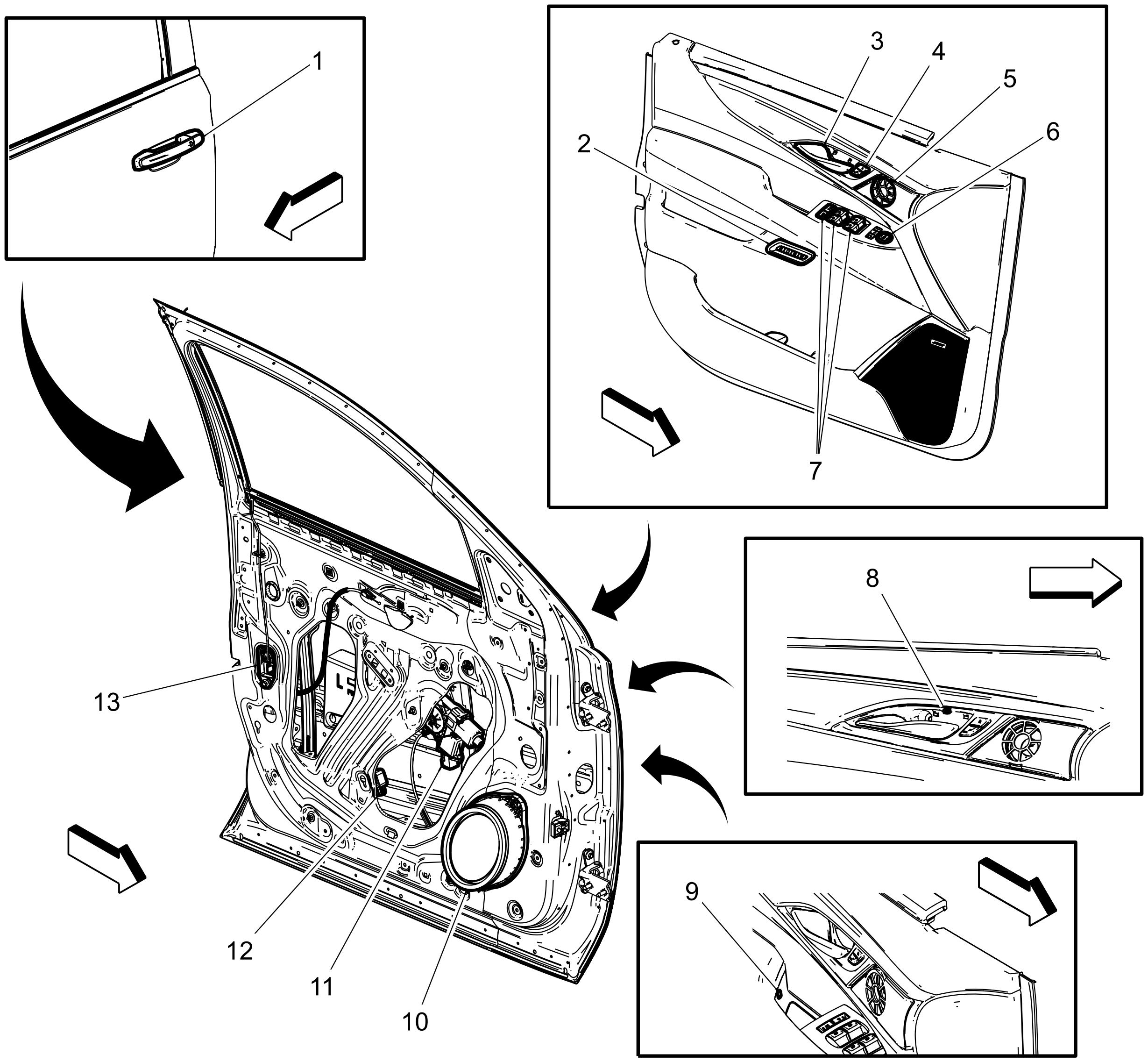
Front Center of The Passenger Compartment Components



Items

1. P19AC Speaker - Subwoofer (UQA, UQH or UQS)
2. B119 Multi-axis Acceleration Sensor (UGN)

Driver Door Components

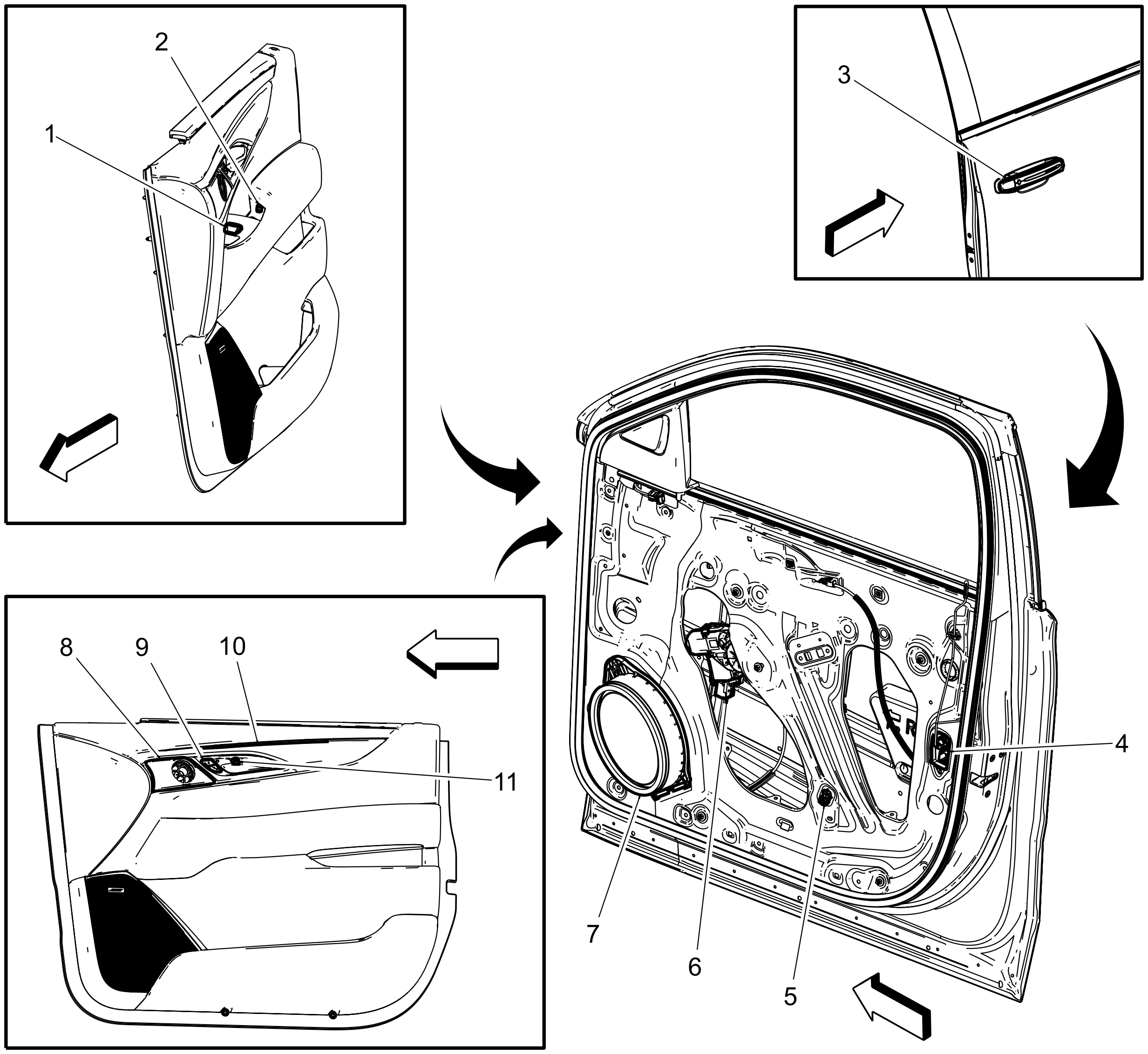


Items

1. B27D Door Handle Switch - Driver Exterior
2. S47D Seat Memory Switch - Driver
3. E63D Flood Lamp - Driver Door Handle (Z75)
4. S13D Door Lock Switch - Driver
5. P19H Speaker - Left Front Tweeter
6. S52 Outside Rearview Mirror Switch
7. S79D Window Switch - Driver
8. E1C Accent Lamp - Driver Door Handle
9. E1D Accent Lamp - Driver Door (Z75)
10. P19AG Speaker - Left Front Door
11. M74D Window Motor - Driver

11. M74D Window Motor - Driver
12. B63LF Side Impact Sensor - Left Front
13. A23D Door Latch Assembly - Driver

Passenger Door Components

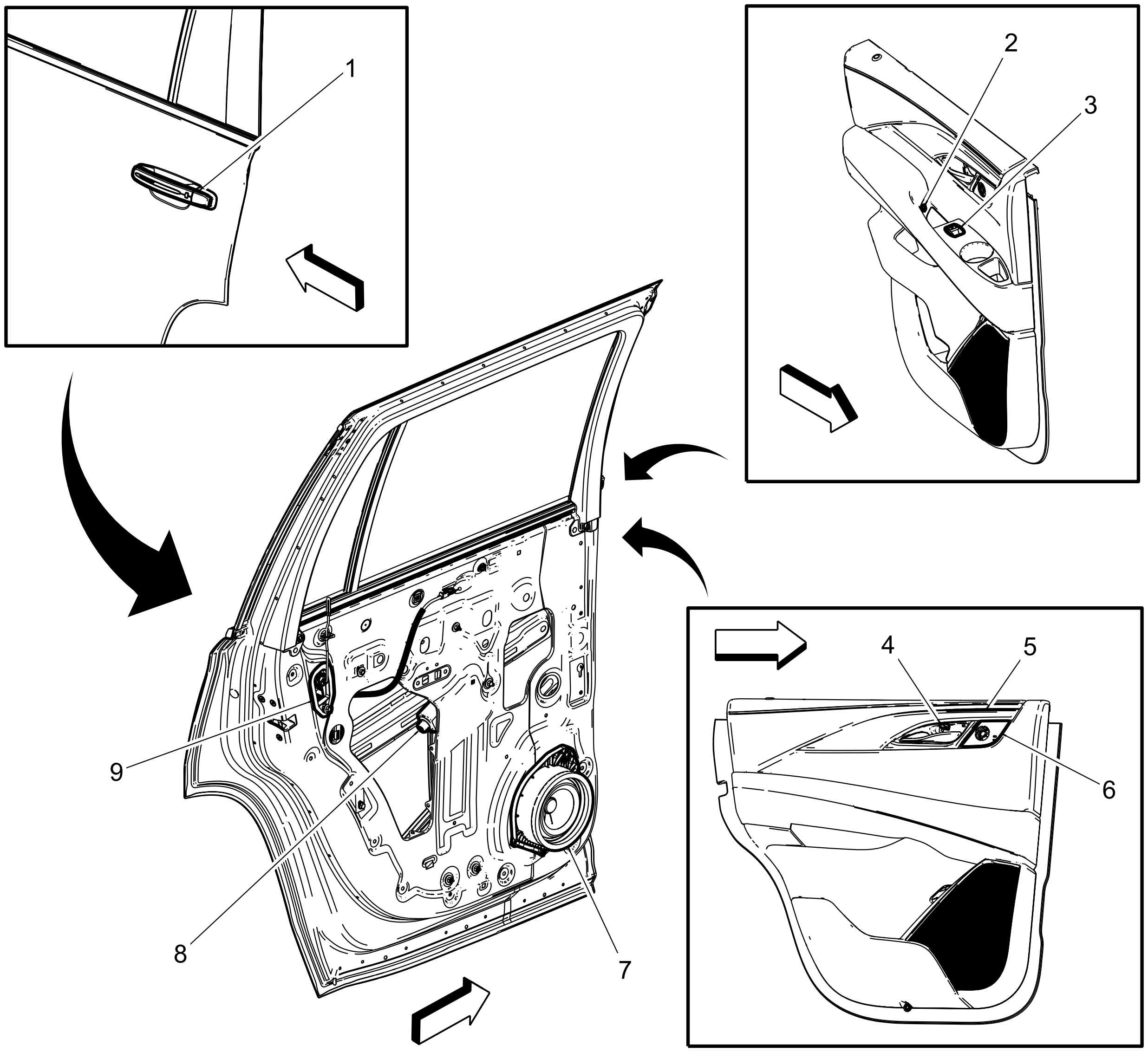


Items

1. S79P Window Switch - Passenger
2. E63P Flood Lamp - Passenger Door Handle (Z75)
3. A24P Door Handle Assembly - Passenger Exterior
4. A23P Door Latch Assembly - Passenger
5. B63RF Side Impact Sensor - Right Front
6. M74P Window Motor - Passenger
7. P19AH Speaker - Right Front Door
8. P19V Speaker - Right Front Tweeter
9. S13P Door Lock Switch - Passenger
10. E1P Accent Lamp - Passenger Door (Z75)
11. E1M Accent Lamp - Passenger Door Handle

11. E1M Accent Lamp - Passenger Door Handle

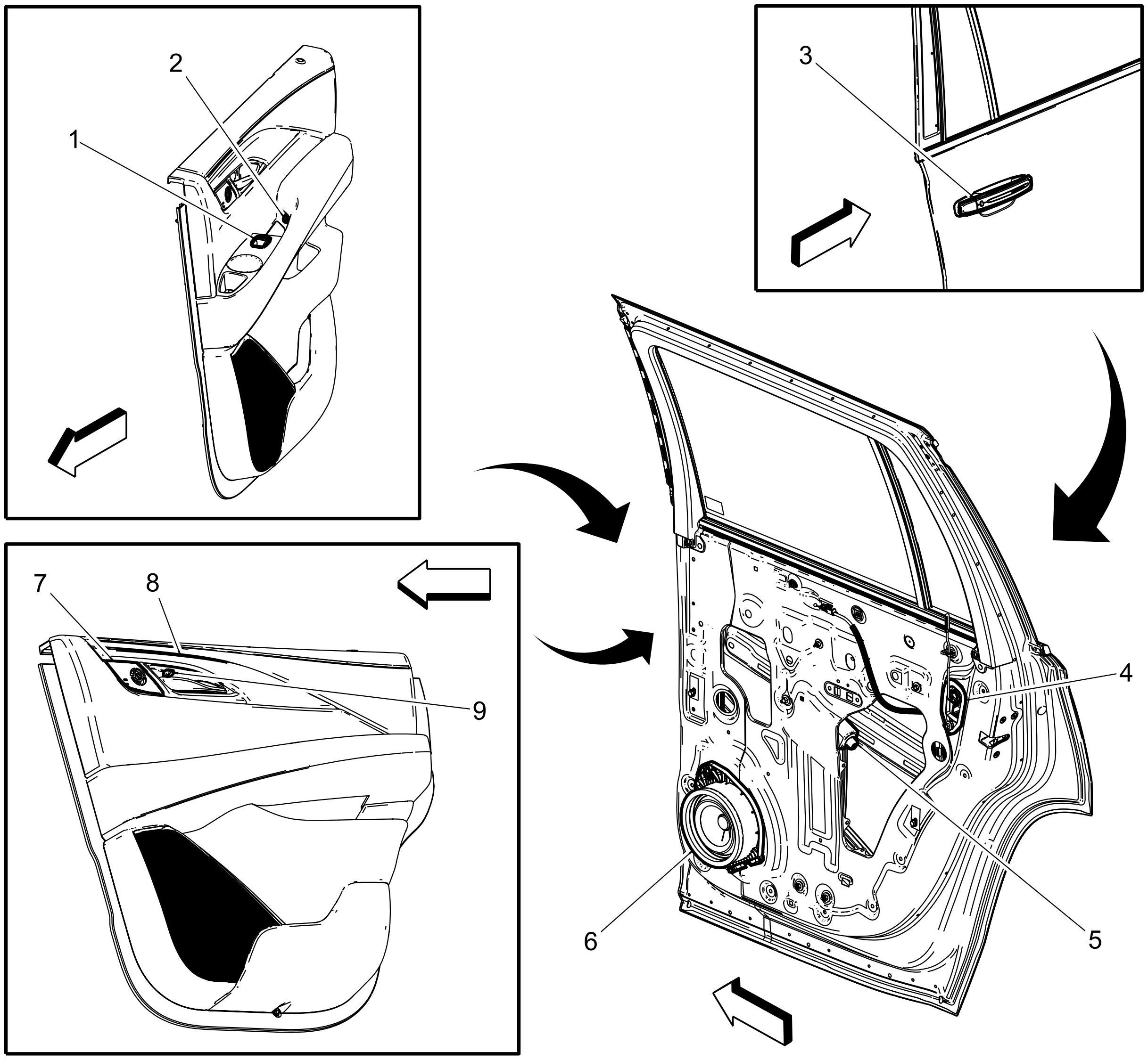
Left Rear Door Components



Items

1. A24LR Door Handle Assembly - Left Rear Exterior
2. E55LR Flood Lamp - Left Rear Door Pocket (Z75)
3. S79LR Window Switch - Left Rear
4. E1E Accent Lamp - Left Rear Door Handle
5. E1R
6. P19M Speaker - Left Rear Tweeter (UQH)
7. P19AL Speaker - Left Rear Door
8. M74LR Window Motor - Left Rear
9. A23LR Door Latch Assembly - Left Rear

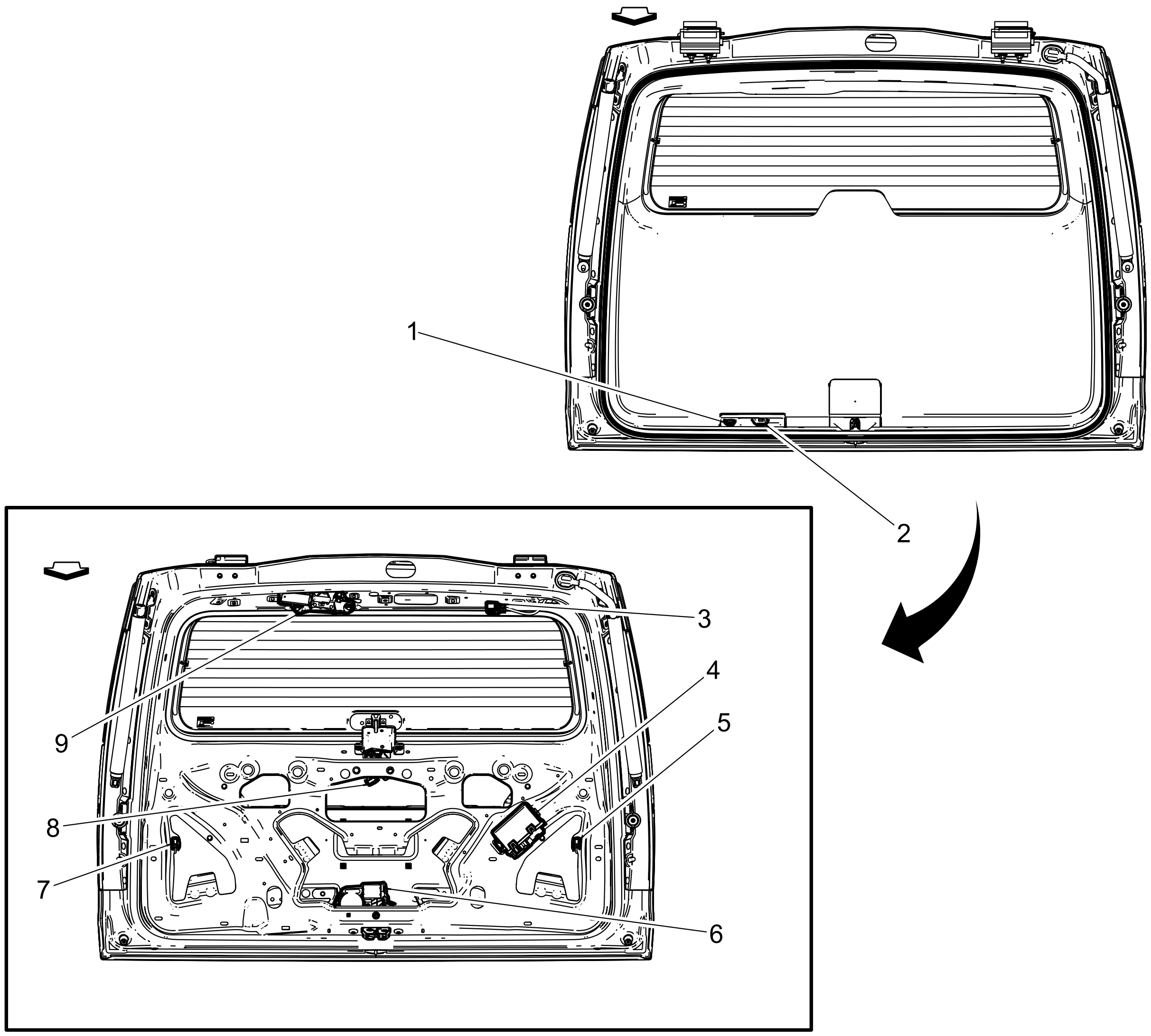
Right Rear Door Components



Items

1. S79RR Window Switch - Right Rear
2. E55RR Flood Lamp - Right Rear Door Pocket (Z75)
3. A24RR Door Handle Assembly - Right Rear Exterior
4. A23RR Door Latch Assembly - Right Rear
5. M74RR Window Motor - Right Rear
6. P19AM Speaker - Right Rear Door
7. P19Z Speaker - Right Rear Tweeter (UQH)
8. E1RR Accent Lamp - Right Rear Door (Z75)
9. E1F Accent Lamp - Right Rear Door Handle

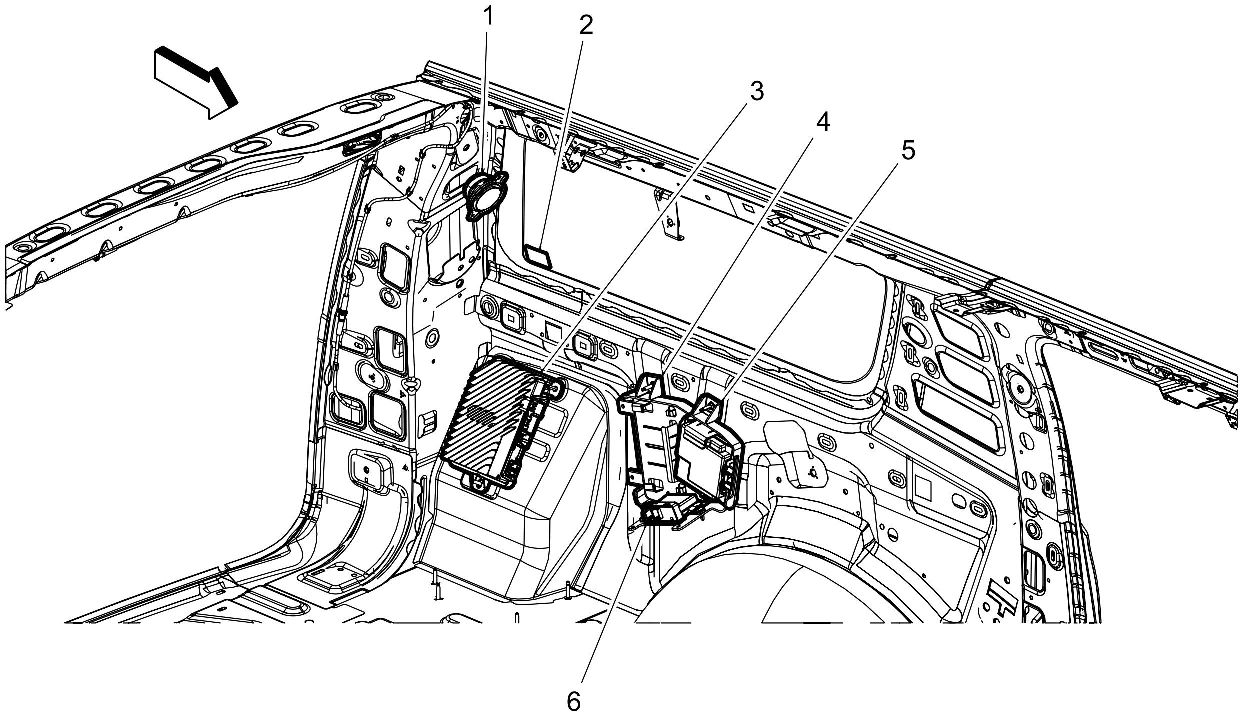
Liftgate Components



Items

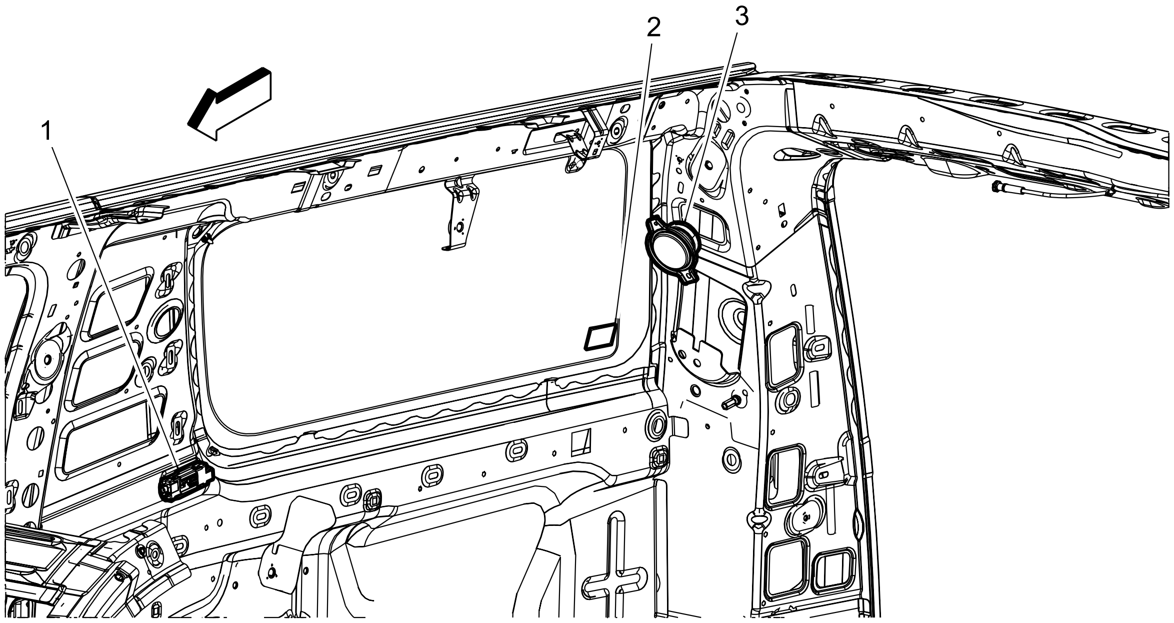
1. S46 Liftgate Handle Switch (TB5)
2. B70 Liftgate Close Switch (TB5)
3. M31 Liftgate Motor (TB5)
4. K39 Liftgate Control Module (TB5)
5. B71L Liftgate Object Sensor - Left (TB5)
6. A23C Liftgate Latch Assembly
7. B71L Liftgate Object Sensor - Left (TB5)
8. M33 Liftgate Window Latch Assembly
9. M45 Rear Wiper Motor

Left Rear Cargo Area Components



Items

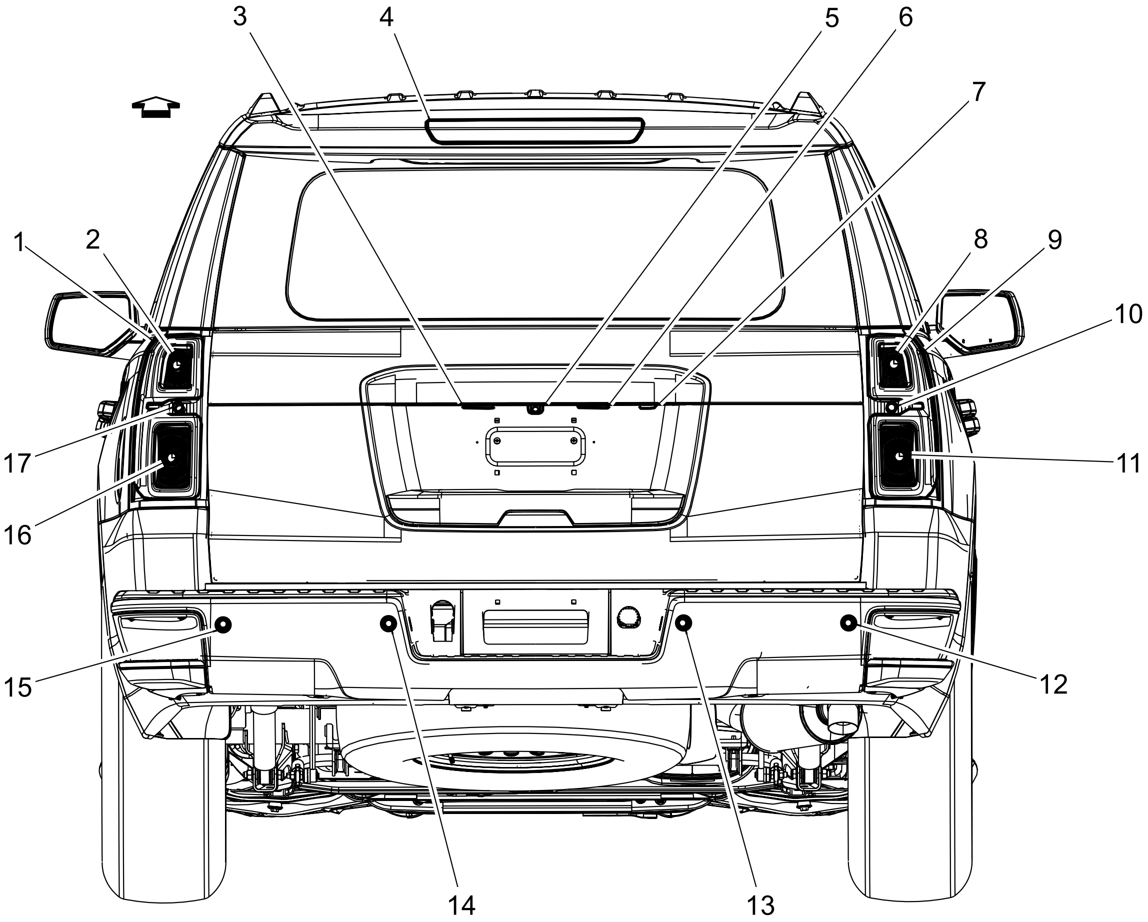
1. P19AN Speaker - Left Rear Trim Panel (UQA, UQH or UQS)
2. B159L Glass Breakage Sensor - Left (UTT)
3. T3 Audio Amplifier (UQA, UQH or UQS)
4. K124 Active Safety Control Module (UGN with Z75)
5. K84 Keyless Entry Control Module (BTM)
6. K41 Front and Rear Parking Assist Control Module (UD5 or UD7)



Items

1. K84 Keyless Entry Control Module (BTM)
2. B159R Glass Breakage Sensor - Right (UTT)
3. P19AP Speaker - Right Rear Trim Panel (UQA, UQH or UQS)

Rear of Vehicle Components (X88)



Items

1. E5E Tail Lamp - Left
2. E5AS (X88 without T89)
3. E7L License Plate Lamp - Left
4. E6 Center High Mounted Stop Lamp
5. B87 Rearview Camera (UVC or UVH)
6. E7R License Plate Lamp - Right
7. M40 Rear Compartment Lid Latch
8. E5AU (X88 without T89)
9. E5F Tail Lamp - Right
10. E5B Backup Lamp - Right
11. E5AV (X88 without T89)

11. E5AV (X88 without T89)

12. B78H Rear Object Sensor - Right Outer (UD5 or UD7)

13. B78F Rear Object Sensor - Right Middle (UD5 or UD7)

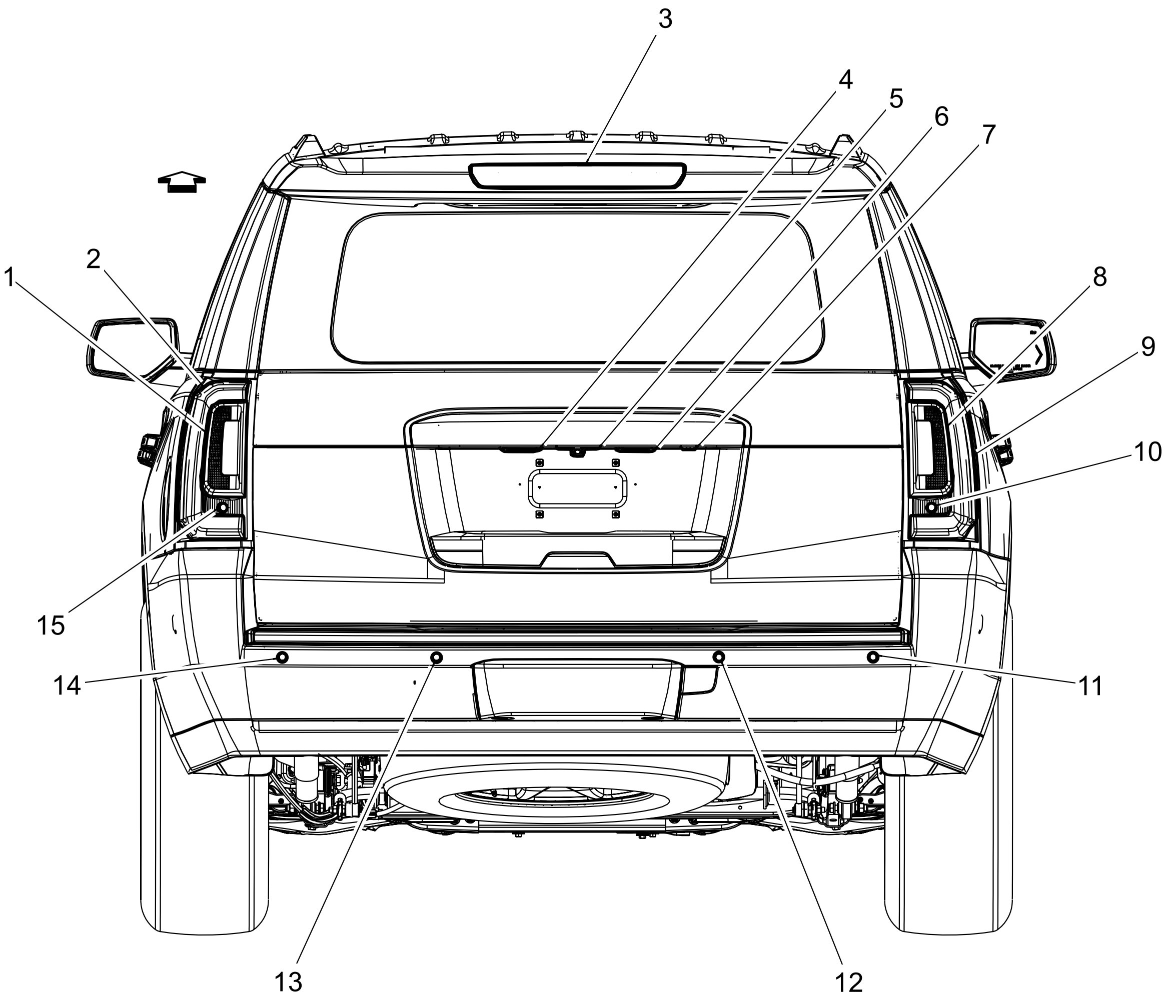
14. B78E Rear Object Sensor - Left Middle (UD5 or UD7)

15. B78G Rear Object Sensor - Left Outer (UD5 or UD7)

16. E5AT (X88 without T89)

17. E5A Backup Lamp - Left

Rear of Vehicle Components (Z88)



Items

1. E4LR Turn Signal Lamp - Left Rear (Z88, Z75, or X88 with T89)

2. E5L Stop Lamp - Left (Z88, Z75, or X88 with T89)

3. E6 Center High Mounted Stop Lamp

4. E7L License Plate Lamp - Left

5. B87 Rearview Camera (UVC or UVH)

6. E7R License Plate Lamp - Right

7. M40 Rear Compartment Lid Latch

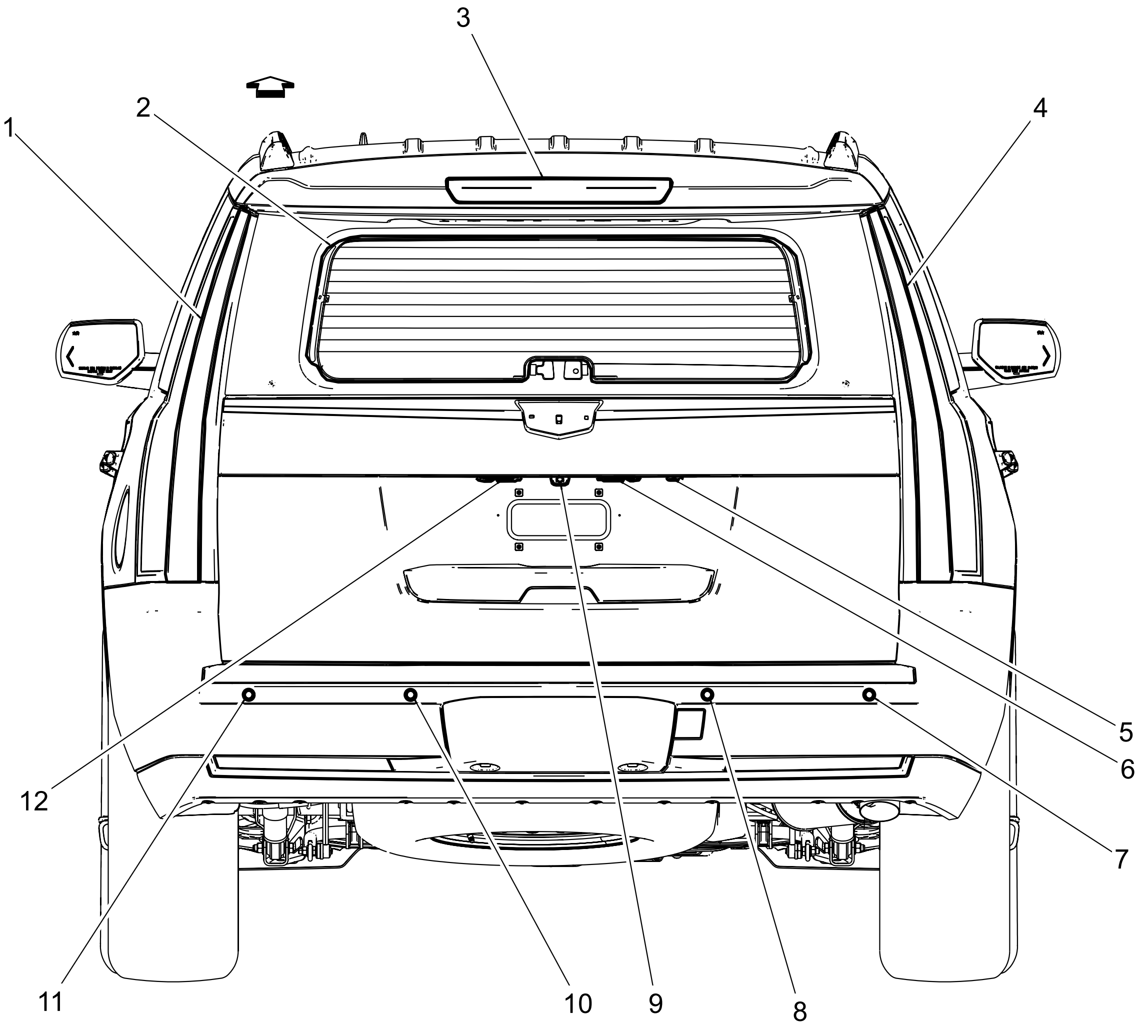
8. E4RR Turn Signal Lamp - Right Rear (Z88, Z75, or X88 with T89)

9. E5R Stop Lamp - Right (Z88, Z75, or X88 with T89)

10. E5B Backup Lamp - Right

10. E5B Backup Lamp - Right
11. B78H Rear Object Sensor - Right Outer (UD5 or UD7)
12. B78F Rear Object Sensor - Right Middle (UD5 or UD7)
13. B78E Rear Object Sensor - Left Middle (UD5 or UD7)
14. B78G Rear Object Sensor - Left Outer (UD5 or UD7)
15. E5A Backup Lamp - Left

Rear of Vehicle Components (Z75)



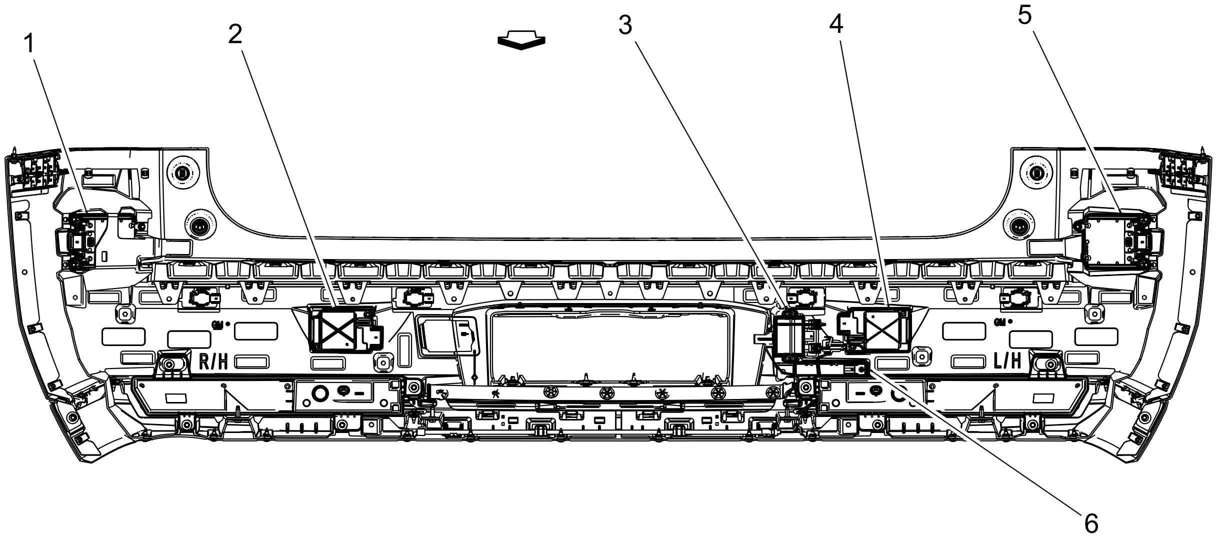
Items

1. E42L Tail Lamp Assembly - Left
2. E18 Rear Defogger Grid
3. E6 Center High Mounted Stop Lamp
4. E42R Tail Lamp Assembly - Right
5. S141
6. E7R License Plate Lamp - Right
7. B78H Rear Object Sensor - Right Outer (UD5 or UD7)
8. B78F Rear Object Sensor - Right Middle (UD5 or UD7)
9. B87 Rearview Camera (UVC or UVH)
10. B78E Rear Object Sensor - Left Middle (UD5 or UD7)
11. B78G Rear Object Sensor - Left Outer (UD5 or UD7)

11. B78G Rear Object Sensor - Left Outer (UD5 or UD7)

12. E7L License Plate Lamp - Left

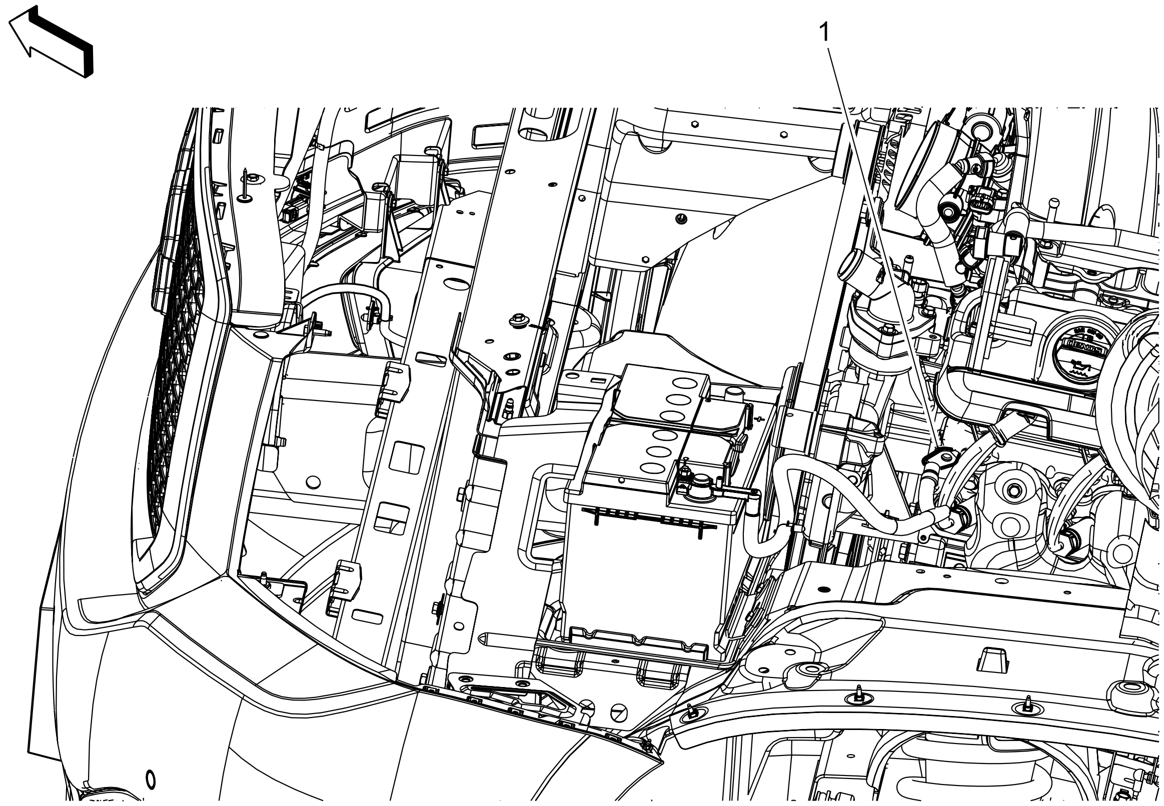
Behind Rear Fascia Components



Items

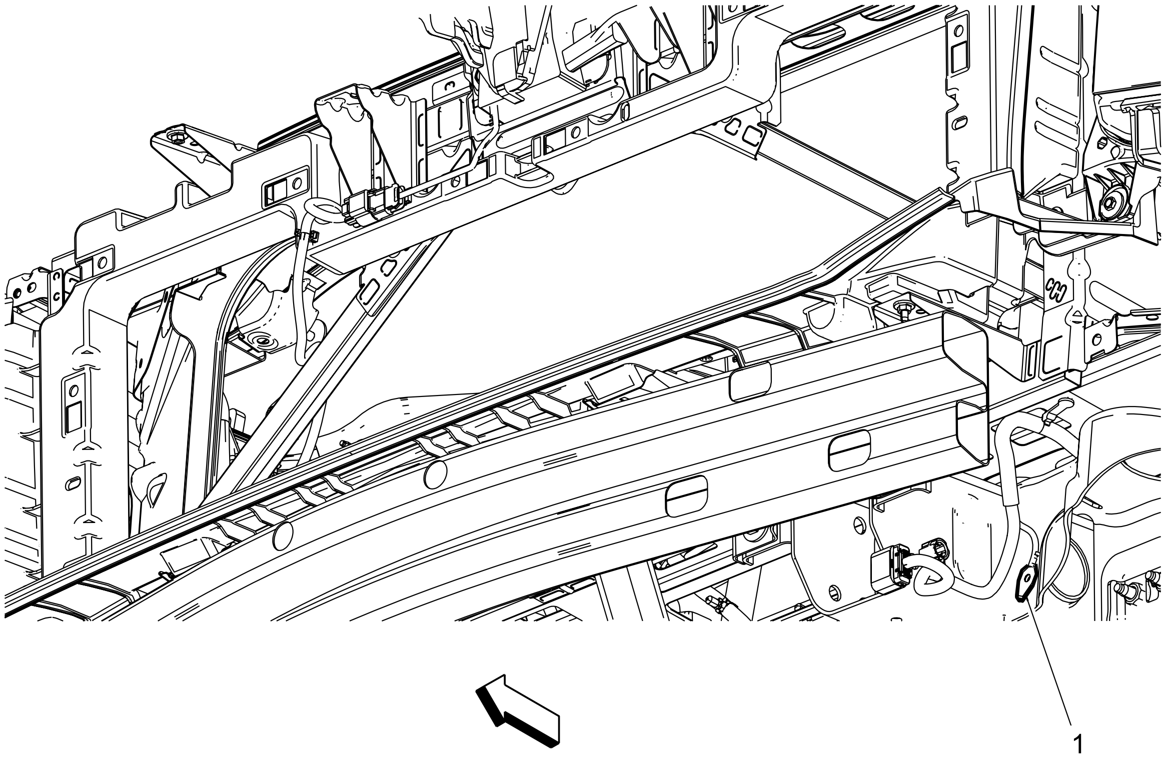
1. B218R Side Object Sensor Module - Right (UKC)
2. B233RR Radar Sensor Module - Short Range Right Rear (UGN with Z75)
3. S45A Liftgate Control Switch - Exterior
4. B233LR Radar Sensor Module - Short Range Left Rear (UGN with Z75)
5. B218L Side Object Sensor Module - Left (UKC)
6. T10G Keyless Entry Antenna - Rear Fascia

G100 (5W4 or 9C1)



Items

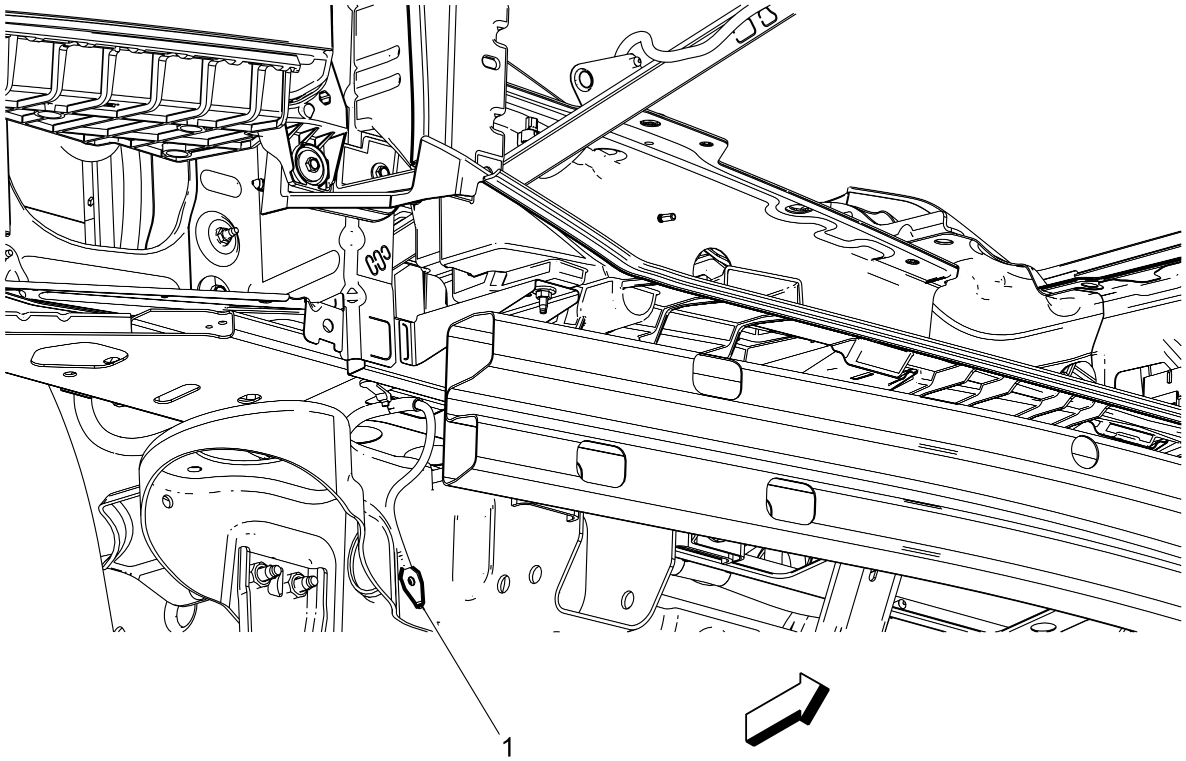
1. G100 (5W4 or 9C1)



Items

1. G101

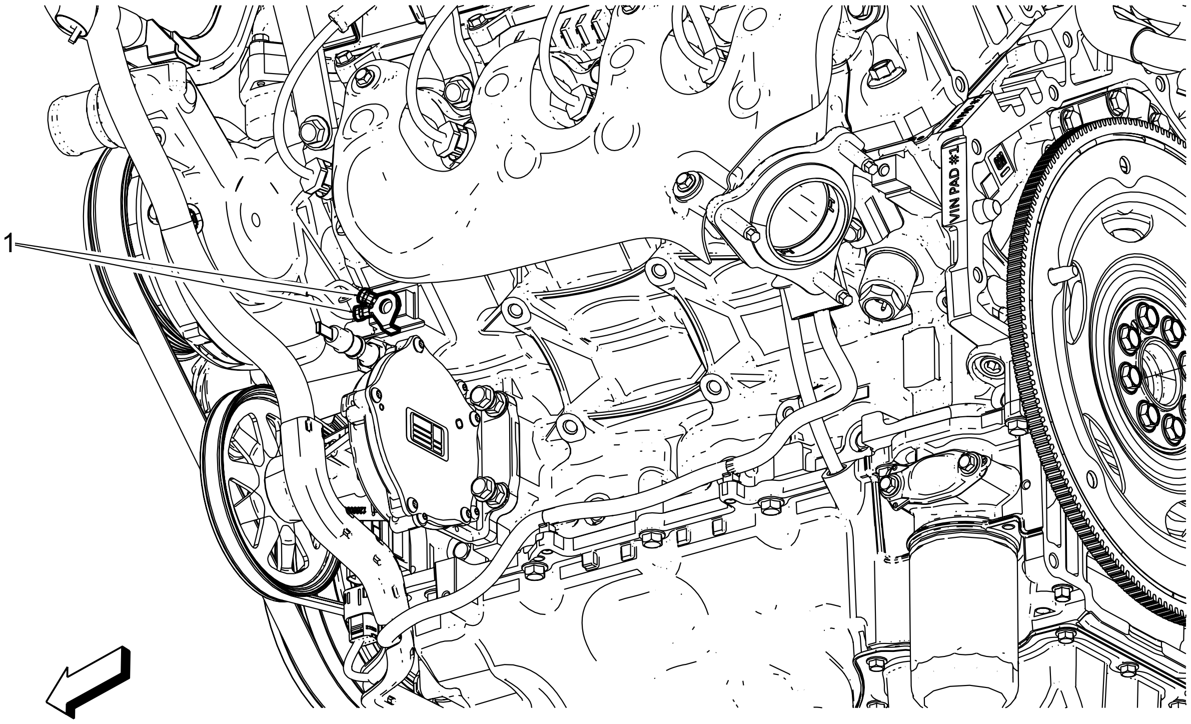
G102



Items

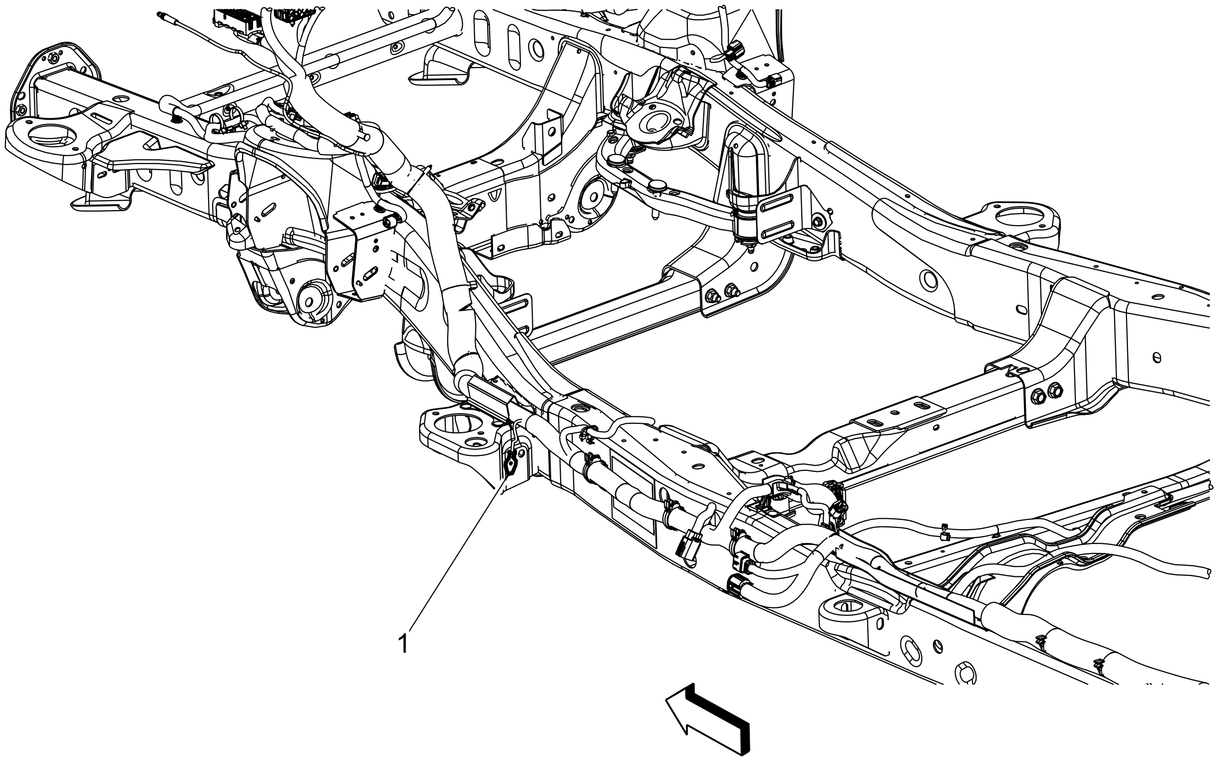
1. G102

G110



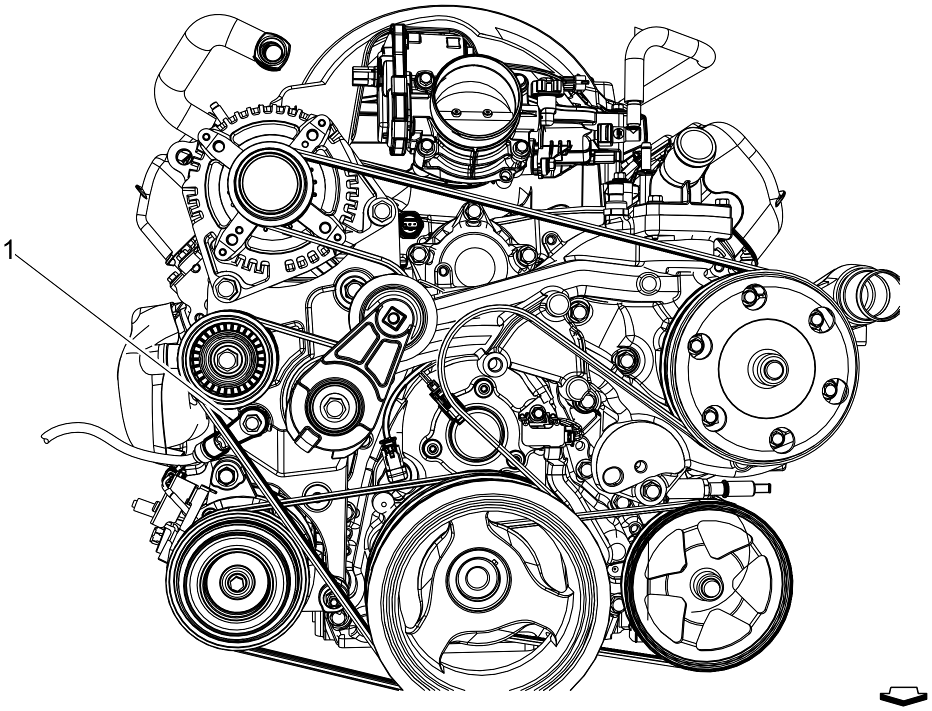
Items

1. G110



Items

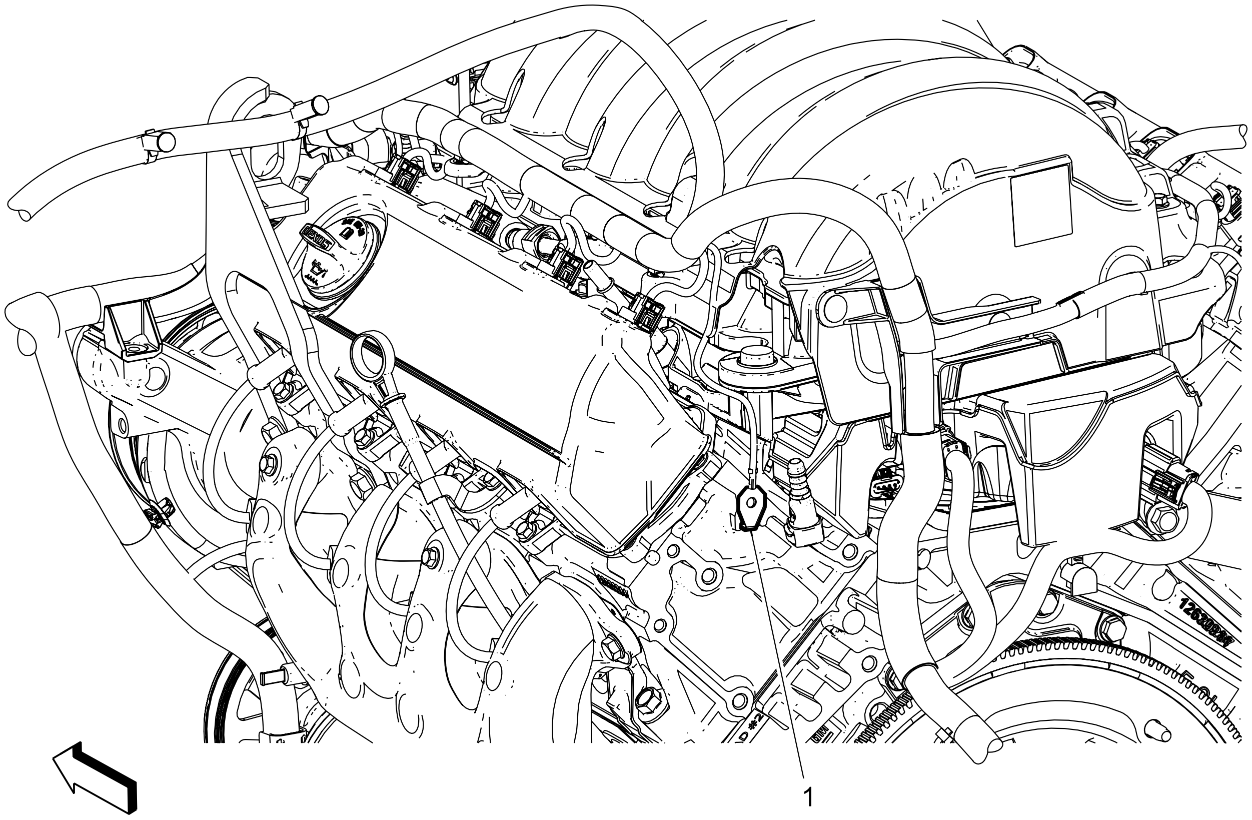
1. G121



Items

1. G125

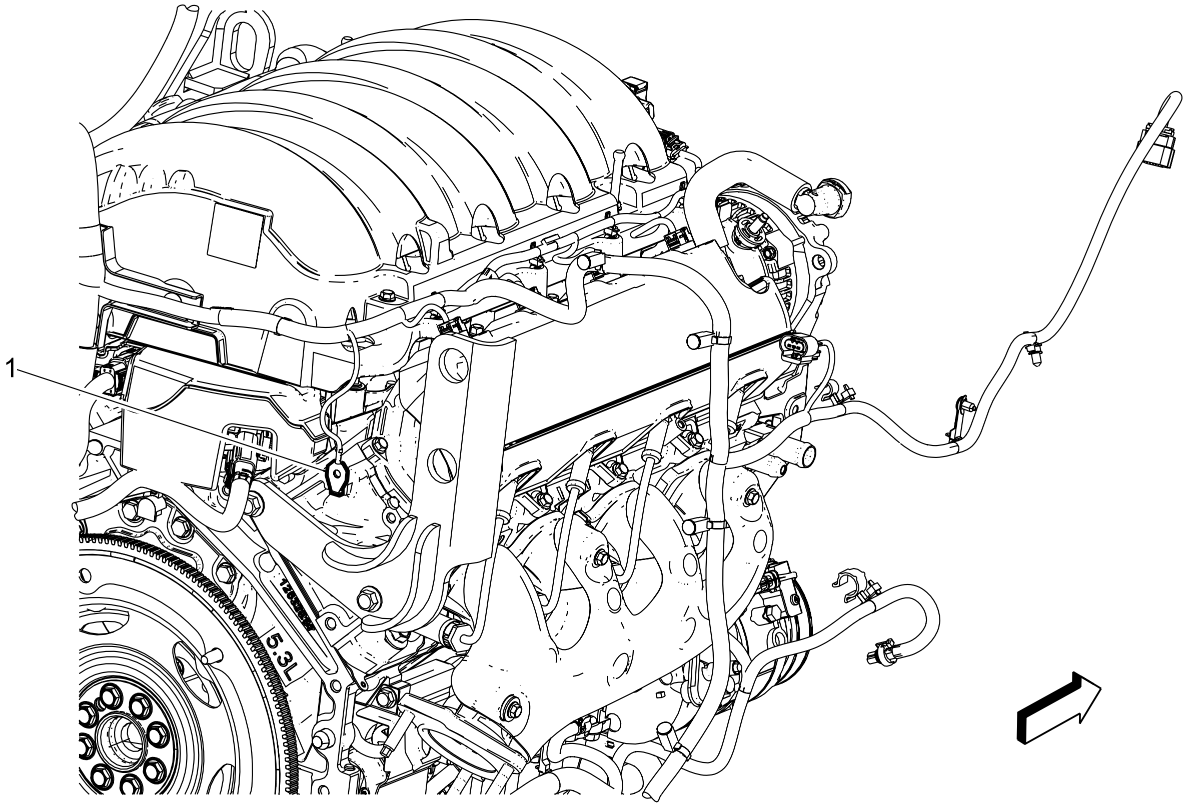
G130



Items

1. G130

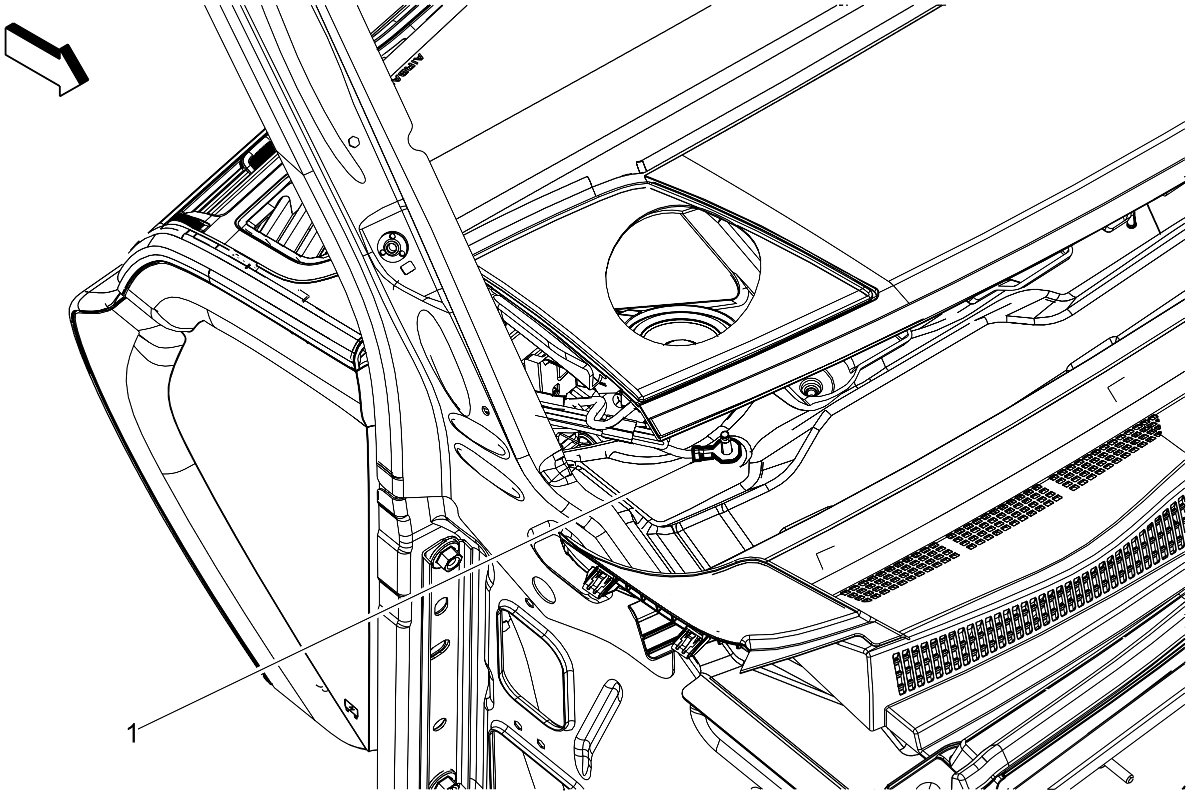
G140



Items

1. G140

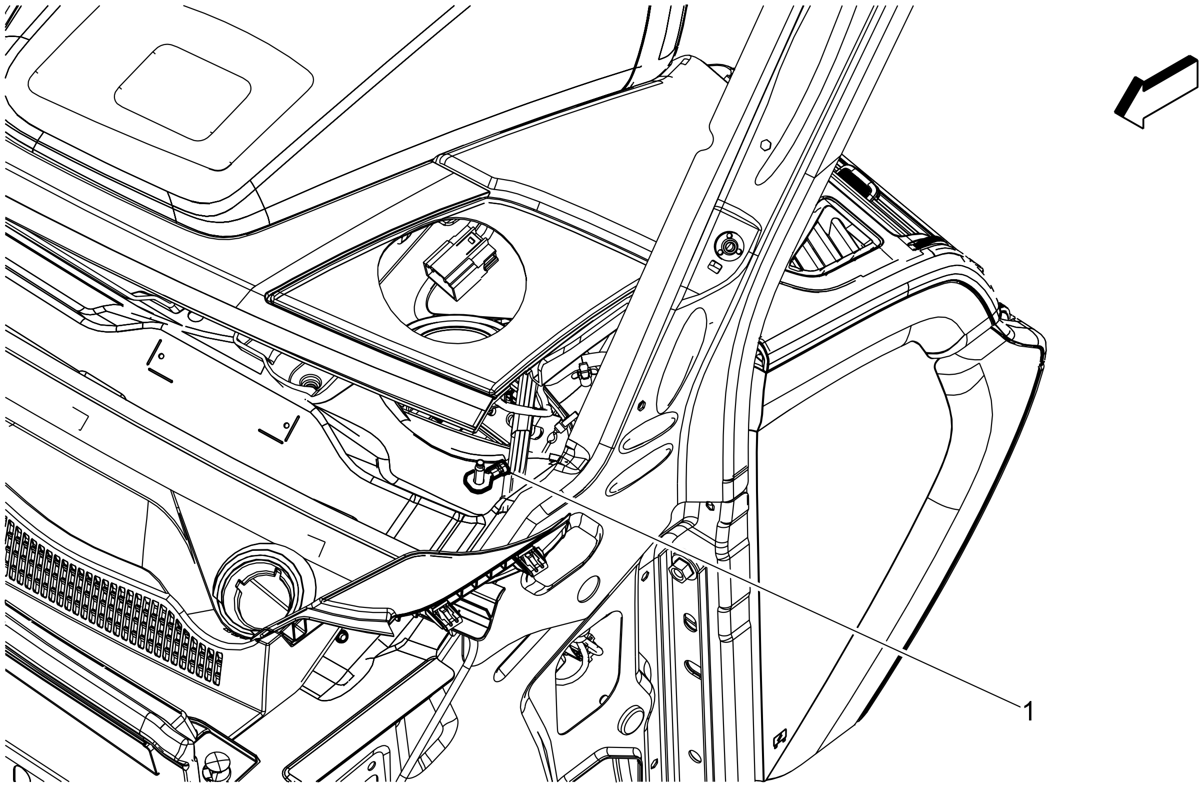
G210



Items

1. G210

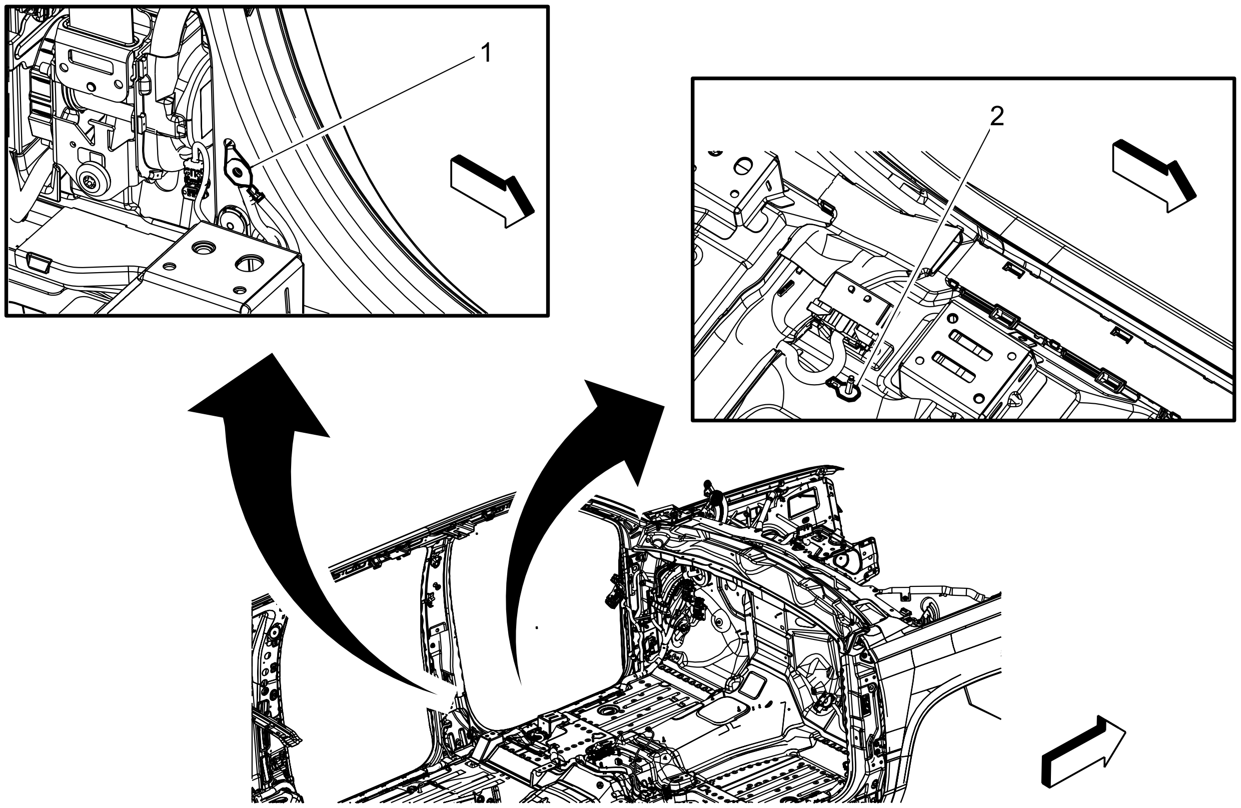
G218



Items

1. G218

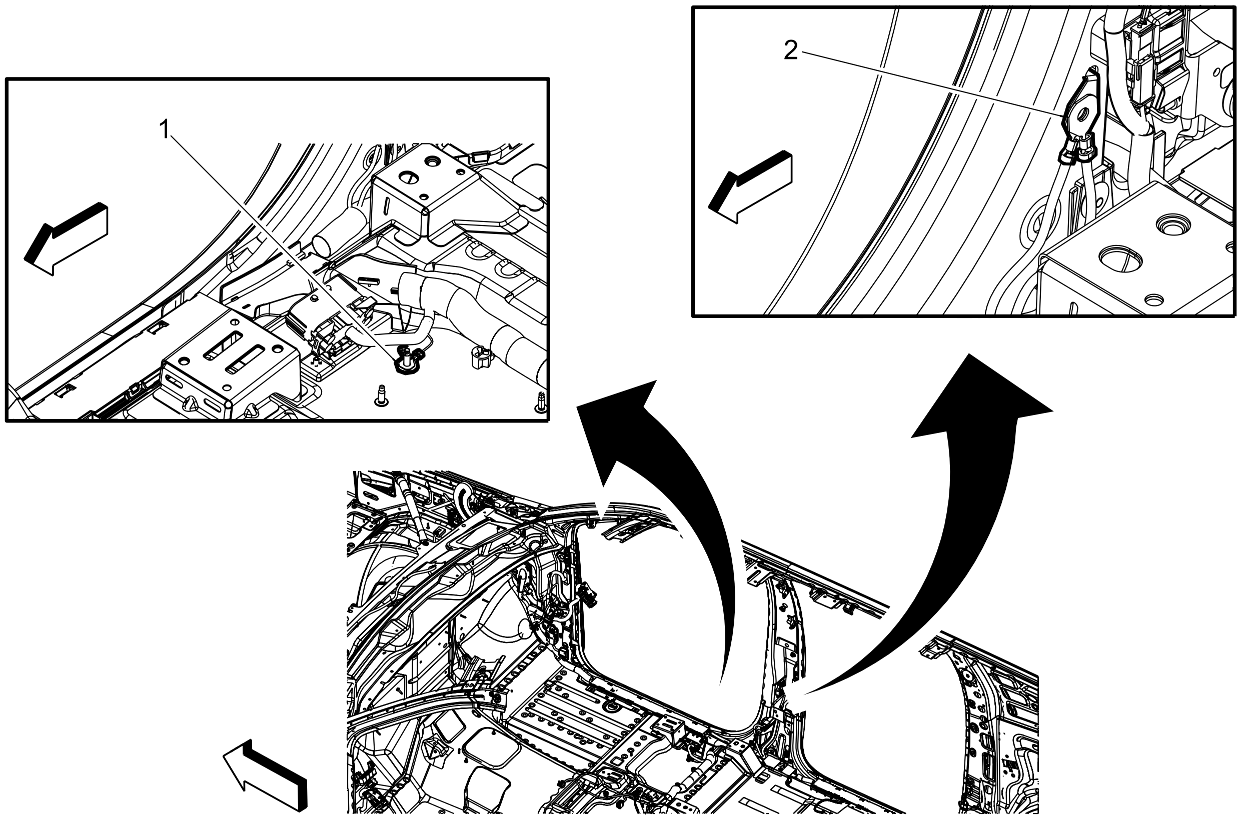
G311 and G325



Items

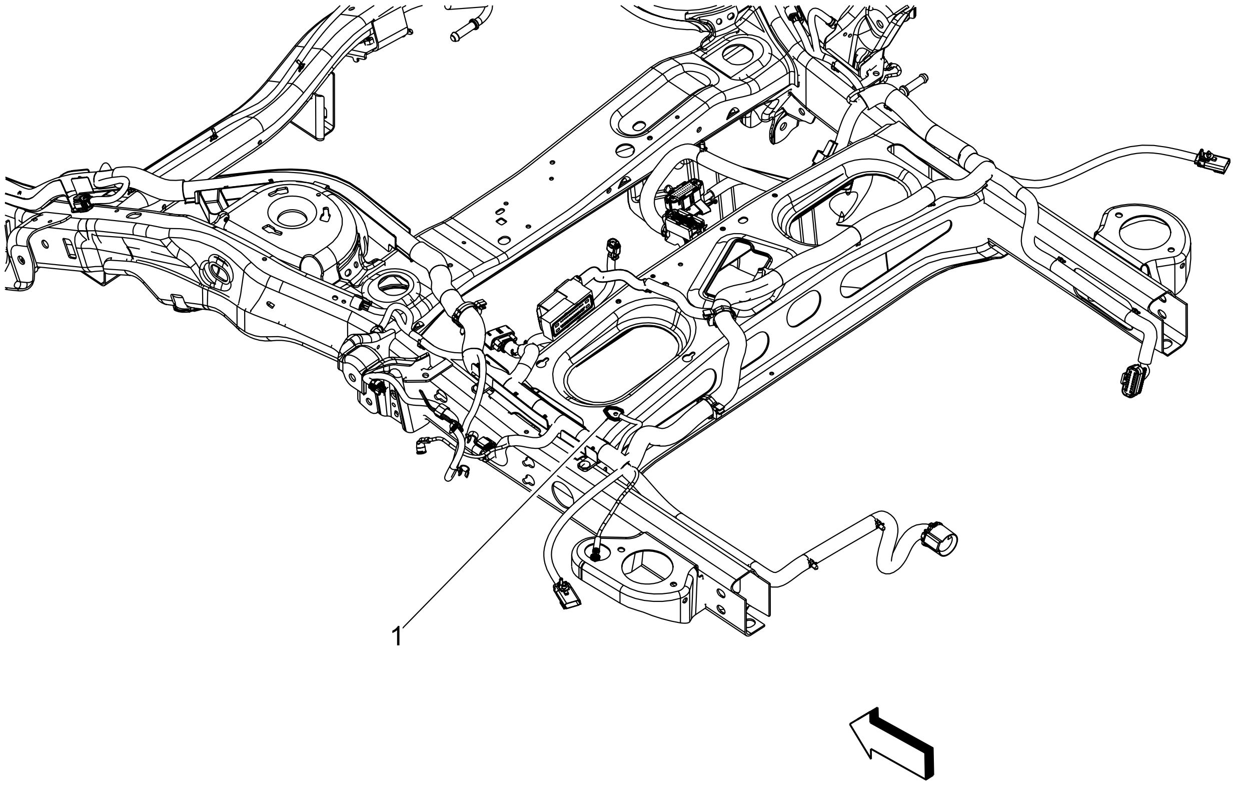
1. G311
2. G325

G312 and G327



Items

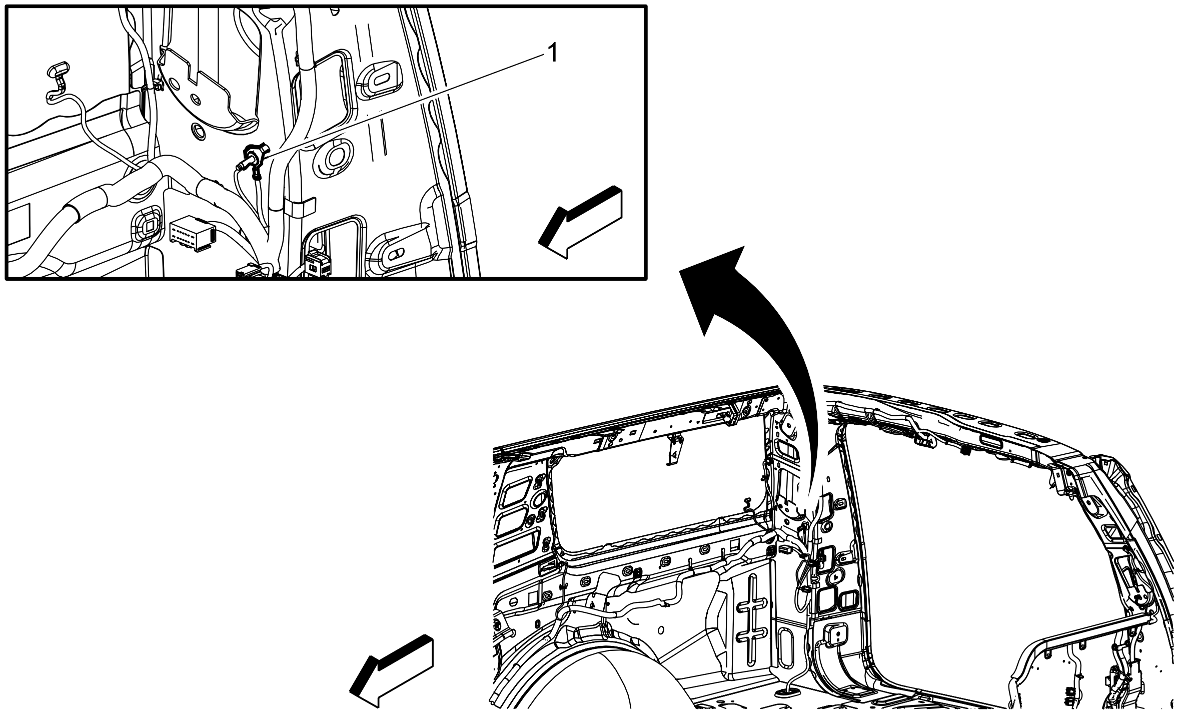
1. G327
2. G312



Items

1. G400

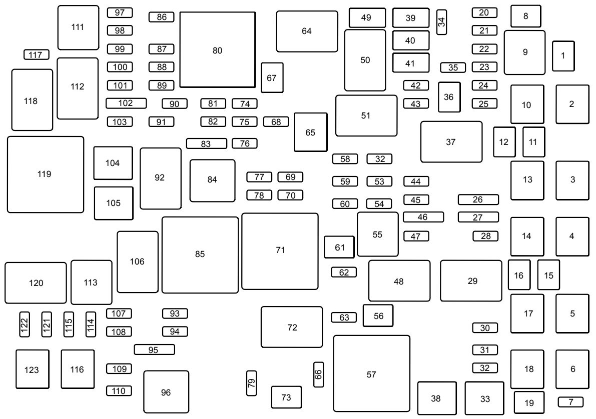
G402



Items

1. G402

X50A Fuse Block - Underhood Label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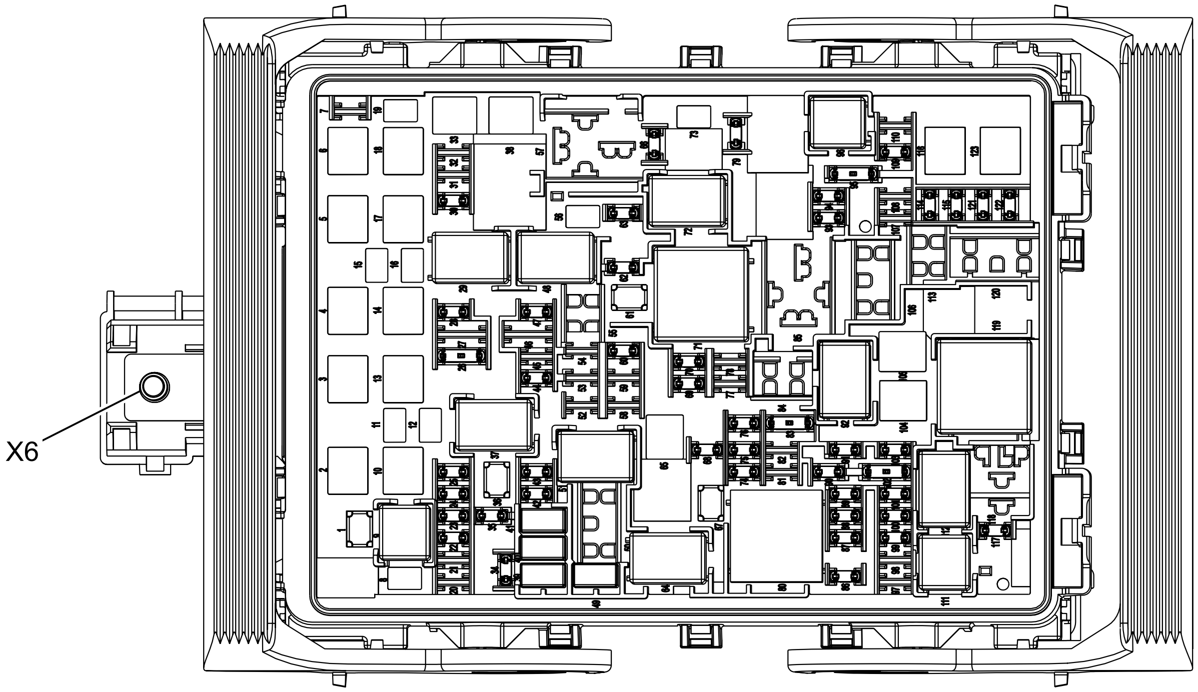
1	30A ELEC RNG BDS
2	60A ABS PUMP
3	60A INT BEC LT1
4	40A WSB PASS
5	40A SUSP LEVELING CMPRSR
6	30 4WD TREC
10	40A ELEC PRK BRK
13	60A INT BEC LT2
14	60A REAR BEC1
17	40A MSB DRVR
21	15A ALC EXH SOL
23	10A ICCM
24	30A RTD
25	30A FPPM
26	5A SPARE/BATT RVC
28	30A UPFIT 2
29	UPFIT 2 RLY
30	25A WPR
34	10A BCK UP LP
35	25A ABS VLV
36	30A TRLR BRK
37	UPFIT 3 RLY
39	10A TRLR STOP TRN RT
40	10A TRKR STIO TRB LT
41	20A PRK LP TRLR
42	15A PRK LP RT
43	15A PRK LP LT
44	30A UPFIT 3
45	10A ALC RUN/CRANK
47	30A UPFIT 4
48	UPFIT 4 RLY
49	10A REV LP
51	PRK LP RLY
60	10A A/C CONTRL
63	30A UPFIT 1
67	30A TRLR BATT
69	5A RC UPFIT 3 & 4
70	5A VBAT UPFIT 3 & 4
72	UPFIT 1 RLY
74	15A ECM IGN
75	10A MISC IGN SPARE
76	15A TRANS IGN
77	5A RC UPFIT 1 & 2
78	5A VBAT UPFIT 1 & 2
83	10A SPARE/SPARE
84	RUN/CRNK RLY
87	15A ENG
88	20A INJ A ODD
89	20A INJ B EVEN
90	15A O2 B SNSR
91	15A THROT CONT
92	ECM RLY
93	15A HORN
94	15A FOG LP
95	10A LT/RT HI BEAM
100	15A O2 A SNSR
101	30A ECM
102	15A ECM/TCM
103	10A INT HTR AUX
104	40A STRTR
107	10A AERO SHUTTER
109	10A POLICE UPFIT
112	STRTR RLY
114	15A FRT WSW
115	15A RR WSW
116	40A COOL FAN LT
121	20A RT HID
122	20A LT HID
123	40A COOL FAN RT

X50A Fuse Block - Underhood Top View



X50A Fuse Block - Underhood Usage

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
1	ELEC RNG BDS	F1UA	30A	K4 Assist Step Control Module
2	ABS PUMP	F2UA	60A	K17 Electronic Brake Control Module
3	INT BEC LT1	F3UA	60A	X51L Fuse Block - Instrument Panel Left
4	MSB PASS	F4UA	40A	M101R Seat Belt Retractor Motor Module - Right (AX7)
5	SUSP LEVELING CMPRSR	F5UA	40A	KR99 Air Suspension Relay (Z85 or Z95)
6	4WD TREC	F6UA	30A	A16 Transfer Case Motor (NP0 or NQH), K69 Transfer Case Control Module (NP0 or NQH)
7	-	F7UA	-	Not Used
8	-	F8UA	-	Not Used
10	ELEC PRK BRK	F10UA	40A	K83 Parking Brake Control Module (J71)
11	-	F11UA	-	Not Used
12	-	F12UA	-	Not Used
13	INT BEC LT2	F13UA	60A	X51L Fuse Block - Instrument Panel Left
14	REAR BEC1	F14UA	60A	X53A Fuse Block - Rear Body
15	-	F15UA		Not Used

15	-	F15UA	-	Not Used
16	-	F16UA	-	Not Used
17	MSB DRVR	F17UA	40A	M101L Seat Belt Retractor Motor Module - Left (AX7)
18	-	F18UA	-	Not Used
19	-	F19UA	-	Not Used
20	-	F20UA	-	Not Used
21	ALC EXH SOL	F21UA	15A	Q4 Vehicle Level Control Solenoid Valve (Z85)
22	-	F22UA	-	Not Used
23	ICCM	F23UA	10A	K38 Chassis Control Module (JL1 witout IK9)
24	RTD	F24UA	30A	K19 Suspension Control Module (Z95)
25	FPPM	F25UA	30A	K38 Chassis Control Module (IK9 without JL1), K111 Fuel Pump Driver Control Module (IK9 without JL1) or (without IK9 or JL1)
26	SPARE/BATT RVC	F26UA	5A	K9 Body Control Module
27	-	F27UA	-	Not Used
28	UPFIT 2	F28UA	30A	W9 Blunt Cut - Police Provision (5W4 or 9C1)
30	WPR	F30UA	25A	KR12B Windshield Wiper Relay, KR12C Windshield Wiper Speed Control Relay
31	-	F31UA	-	Not Used
32	-	F32UA	-	Not Used
33	-	F33UA	-	Not Used
34	BCK UP LP	F34UA	10A	A10 Inside Rearview Mirror (DD8), B87 Rearview Camera (DD8 without UVH), E5A Backup Lamp - Left, E5B Backup Lamp - Right
35	ABS VLV	F35UA	25A	K17 Electronic Brake Control Module
36	TRLR BRK	F36UA	30A	K67 Trailer Brake Control Module (JL1), W24 Blunt Cut Trailer Brakes Provision (without JL1)
38	-	F38UA	-	Not Used
39	TRLR STOP TRN RT	F39UA	10A	X88 Trailer Connector
40	TRLR STOP TRN LT	F40UA	10A	X88 Trailer Connector
41	PRK LP TRLR	F41UA	20A	X88 Trailer Connector
42	PRK LP RT	F42UA	15A	E2RF Side Marker Lamp - Right Front (X88 or Z88), E4K Park Lamp - Right Front (without Y91 or Z75), E5F Tail Lamp - Right (Z75 or Z88), E13RA Headlamp Assembly - Right (Z75), E42R Tail Lamp Assembly - Right (X88), E69R Multifunction Lamp Assembly - Front Fascia Right (Z75)
43	PRK LP LT	F43UA	15A	E2LF Side Marker Lamp - Left Front (X88 or Z88), E4J Park Lamp - Left Front (without Y91 or Z75), E5E Tail Lamp - Left (Z75 or Z88), E13LA Headlamp Assembly - Left (Z75), E42L Tail Lamp Assembly - Left (X88), E69L Multifunction Lamp Assembly - Front Fascia Left (Z75)
44	UPFIT 3	F44UA	30A	W9 Blunt Cut - Police Provision (5W4 or 9C1)
45	ALC RUN/CRANK	F45UA	10A	KR99 Air Suspension Relay (Z85)

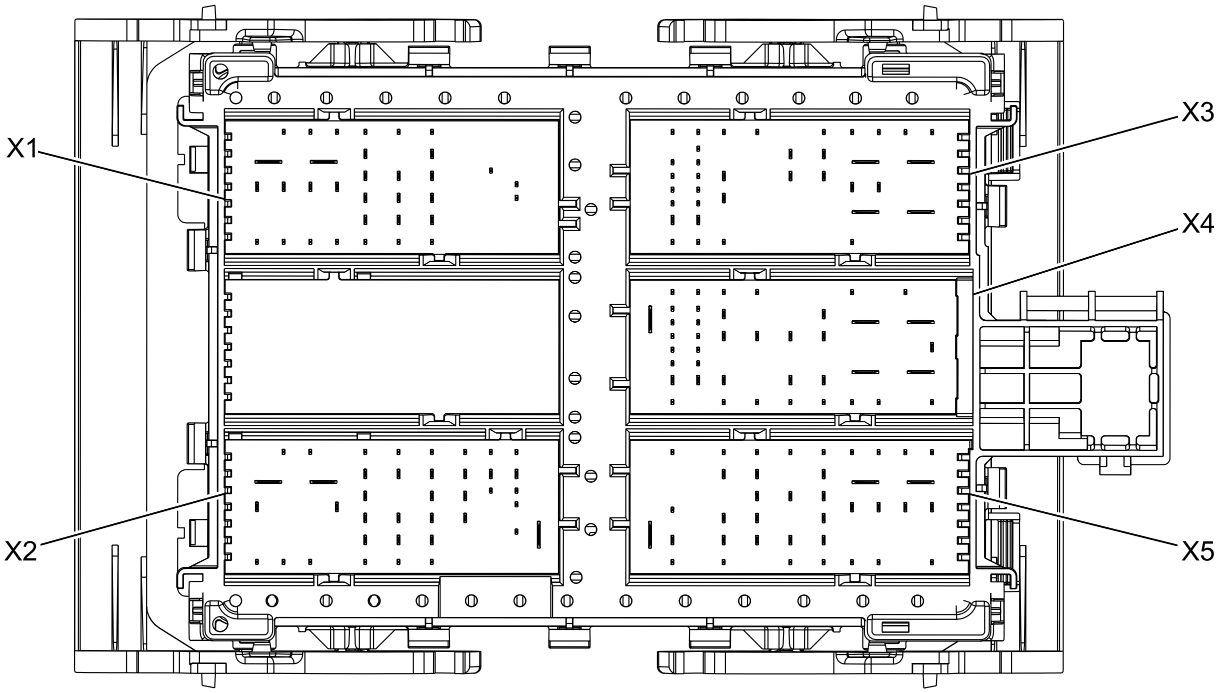
45	ALC RUN/CRANK	F45UA	10A	KR99 Air Suspension Relay (Z85)
46	-	F46UA	-	Not Used
47	UPFIT 4	F47UA	30A	W9 Blunt Cut - Police Provision (5W4 or 9C1)
49	REV LP	F49UA	10A	X88 Trailer Connector
52	-	F52UA	-	Not Used
53	-	F53UA	-	Not Used
54	-	F54UA	-	Not Used
56	-	F56UA	-	Not Used
58	-	F58UA	-	Not Used
59	-	F59UA	-	Not Used
60	A/C CONTRL	F60UA	10A	KR29 A/C Compressor Clutch Relay
61	-	F61UA	-	Not Used
62	-	F62UA	-	Not Used
63	UPFIT 1	F63UA	30A	W9 Blunt Cut - Police Provision (5W4 or 9C1)
65	-	F65UA	-	Not Used
66	-	F66UA	-	Not Used
67	TRLR BATT	F67UA	30A	X88 Trailer Connector
68	-	F68UA	-	Not Used
69	RC UPFIT 3 & 4	F69UA	5A	KR161C Configurable Provision Relay 3 (5W4 or 9C1), KR161D Configurable Provision Relay 4 (5W4 or 9C1)
70	VBAT UPFIT 3 & 4	F70UA	5A	KR161C Configurable Provision Relay 3 (5W4 or 9C1), KR161D Configurable Provision Relay 4 (5W4 or 9C1)
73	-	F73UA	-	Not Used
74	ECM IGN	F74UA	15A	K20 Engine Control Module, K38 Chassis Control Module, K111 Fuel Pump Control Module
75	MISC IGN SPARE	F75UA	10A	Not Used
76	TRANS IGN	F76UA	15A	K71 Transmission Control Module, Front Axle Engagement Actuator (NP0 or NQH)
77	RC UPFIT 1 & 2	F77UA	5A	KR161A Configurable Provision Relay 1 (5W4 or 9C1), KR161B Configurable Provision Relay 2(5W4 or 9C1)
78	VBAT UPFIT 1 & 2	F78UA	5A	UKR161A Configurable Provision Relay 1 (5W4 or 9C1), KR161B Configurable Provision Relay 2(5W4 or 9C1)
79	-	F79UA	-	Not Used
81	-	F81UA	-	Not Used
82	-	F82UA	-	Not Used

83	SPARE/SPARE	F83UA	10A	Not Used
86	-	F86UA	-	Not Used
87	ENG	F87UA	15A	B75C Multifunction Intake Air Sensor, B198 Fuel Composition Sensor (without Z75)
88	INJ A ODD	F88UA	20A	K20 Engine Control Module, T8A Ignition Coil 1, T8C Ignition Coil 3, T8E Ignition Coil 5, T8G Ignition Coil 7
89	INJ B EVEN	F89UA	20A	K20 Engine Control Module, T8B Ignition Coil 2, T8D Ignition Coil 4, T8F Ignition Coil 6, T8H Ignition Coil 8
90	O2 B SNSR	F90UA	15A	B52D Heated Oxygen Sensor - Bank 1 Sensor 2, B52F Heated Oxygen Sensor - Bank 2 Sensor 2
91	THROT CONT	F91UA	15A	Not Used
93	HORN	F93UA	15A	P12 Horn
94	FOG LP	F94UA	15A	E29LF Fog Lamp - Left Front (T3U), E29RF Fog Lamp - Right Front (T3U)
95	LT/RT HI BEAM	F95UA	10A	E4E Headlamp - Left High Beam (X88 or Z88), E4F Headlamp - Right High Beam (X88 or Z88), E13LA Headlamp Assembly - Left (Z75), E13RA Headlamp Assembly - Right (Z75)
97	-	F97UA	-	Not Used
98	-	F98UA	-	Not Used
99	-	F99UA	-	Not Used
100	O2 A SNSR	F100UA	15A	B52C Heated Oxygen Sensor - Bank 1 Sensor 1, B52E Heated Oxygen Sensor - Bank 2 Sensor 1, Q12 Evaporative Emission Purge Solenoid Valve, Q43 Valve Lifter Oil Manifold Assembly, Q44 Engine Oil Pressure Control Solenoid Valve
101	ECM	F101UA	30A	K20 Engine Control Module
102	ECM/TCM	F102UA	15A	K20 Engine Control Module, K71 Transmission Control Module
103	INT HTR AUX	F103UA	10A	KR81 Auxiliary Battery Relay 1 (5W4 or 9C1)
104	STRTR	F104UA	40A	KR27 Starter Relay
105	-	F105UA	-	Not Used
107	AERO SHUTTER	F107UA	10A	M60A Active Grille Air Shutter 1 Motor Module (IK9), M60B Active Grille Air Shutter 2 Motor Module (IK9)
108	-	F108UA	-	Not Used
109	POLICE UPFIT	F109UA	10A	X122 Forward Lamp Harness to Forward Lamp Harness (6J7)
110	-	F110UA	-	Not Used
114	FRT WSW	F114UA	15A	G24 Windshield Washer Pump
115	RR WSW	F115UA	15A	G19 Rear Window Washer Pump
116	COOL FAN LT	F116UA	40A	G10L Cooling Fan Motor - Left
117	-	F117UA	-	Not Used
121	RT HID	F121UA	20A	T7R Headlamp Ballast - Right (T4F)

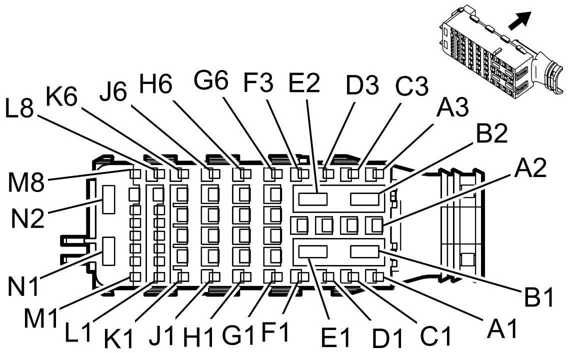
122	LT HID	F122UA	20A	T7L Headlamp Ballast - Left (T4F)
123	COOL FAN RT	F123UA	40A	G10R Cooling Fan Motor - Right
9	-	-	-	Not Used
29	UPFIT 2 RLY	KR161B Configurable Provision Relay 2	-	F28UA
37	UPFIT 3 RLY	KR161C Configurable Provision Relay 3	-	F44UA
48	UPFIT 4 RLY	KR161D Configurable Provision Relay 4	-	F47UA
50	-	-	-	Not Used
51	PRK LP RLY	KR53 Park Lamps Relay	-	F41UA, F42UA, F43UA
55	-	-	-	Not Used
57	-	-	-	Not Used
64	-	-	-	Not Used
71	-	-	-	Not Used
72	UPFIT 1 RLY	KR161A Configurable Provision Relay 1	-	F63UA
80	-	-	-	Not Used
84	RUN/CRNK RLY	KR73 Ignition Main Relay	-	F45UA (Z85), F69UA, F74UA, F76UA, F77UA, F107UA (IK9)
85	-	-	-	Not Used
92	ECM RLY	KR75 Engine Controls Ignition Relay	-	F87UA, F88UA, F89UA, F90UA, F100UA, F101UA, KR29 A/C Compressor Clutch Relay
96	-	-	-	Not Used
106	-	-	-	Not Used
111	-	-	-	Not Used
112	STRTR RLY	KR27 Starter Relay	-	M64 Starter Motor
113	-	-	-	Not Used
118	-	-	-	Not Used
119	-	-	-	Not Used
120	-	-	-	Not Used
-	-	KR3 Horn Relay	-	F93UA
-	-	KR6 Rear Window Washer Pump Relay	-	F115UA

		Relay		
-	-	KR11 Windshield Washer Pump Relay	-	F114UA
-	-	KR12B Windshield Wiper Relay	-	KR12C Windshield Wiper Speed Control Relay
-	-	KR12C Windshield Wiper Speed Control Relay	-	M75 Windshiled Wiper Motor
-	-	KR29 A/C Compressor Clutch Relay	-	Q2 A/C Compressor Clutch
-	-	KR46 Front Fog Lamp Relay	-	F94UA (T3U)
-	-	KR48 Headlamp High Beam Relay	-	F95UA
-	-	KR49 Headlamp Low Beam Relay	-	F121UA (T4F), F122UA (T4F)
-	-	KR53 Park Lamps Relay	-	F41UA, F42UA, F43UA
-	-	KR61 Trailer Backup Lamps Relay	-	F34UA, F49UA
-	-	KR63L Trailer Stop/Turn Signal Lamp Relay - Left	-	F40UA
-	-	KR63R Trailer Stop/Turn Signal Lamp Relay - Right	-	F39UA
TP1	-	TP1	-	KR29 A/C Compressor Clutch Relay
TP2	-	TP2	-	KR12C Windshield Wiper Speed Control Relay

X50A Fuse Block - Underhood Bottom View



X50A Fuse Block - Underhood X1



Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 13966830

Service Connector: Pending

Description: 58-Way F 1.5, 2.8, 800 Metri Pack Series (D-BU)

Terminal Part Information

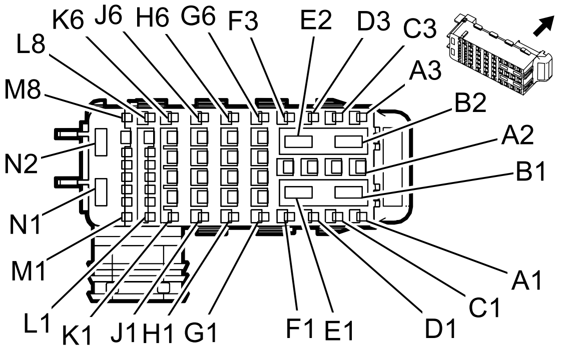
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available
II	13327105	J-35616-44 (YE)	J-38125-558	12110127	19	F	G
III	13575544	J-35616-35 (VT)	J-38125-12A	1326030-6	17	E	C
IV	13580025	J-35616-35 (VT)	J-38125-11A	7116-4111-02	9	E	A

X50A Fuse Block - Underhood X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	0.5	BN	3891	Aero Shutter Control	I	-
A2	0.75	YE	712	Left Headlamp Low Beam Supply Voltage	I	-
B2	4	RD/GY	642	Battery Positive Voltage	II	-
C1	0.5	GY	3890	Aero Shutter Control 2	I	-
C2	0.75	YE	312	Right Headlamp Low Beam Supply Voltage	I	-
D1	0.75	YE	712	Left Headlamp Low Beam Supply Voltage	I	-
D2	0.75	D-BU/VT	392	Rear Window Washer Pump Control	I	-
D3	0.75 0.75	L-GN/VT L-GN/PU	1315 1315	Right Front Turn Signal Lamp Supply Voltage Right Front Turn Signal Lamp Supply Voltage	I	-
E2	4	RD/WH	342	Battery Positive Voltage	II	-
F1	0.5	GY/BN	309	Right Park Lamp Supply Voltage	I	-
F2	0.75	GY/VT	228	Windshield Washer Pump Control	I	-
F3	0.75	D-BU/WH	1314	Left Front Turn Signal Lamp Supply Voltage	I	-

F3	0.75	D-BU/WH	1314	Left Front Turn Signal Lamp Supply Voltage	I	-
G1	0.5	VT/GY	709	Left Park Lamp Supply Voltage	I	-
G2	0.5	WH/PU	4333	Aero Shutter Actuator Supply Voltage	I	-
G4	0.75	BK	150	Ground	I	-
G5	0.75	RD/D-BU	3940	Battery Positive Voltage	III	-
H1	0.5	YE/GY	57	Left Cornering Lamp Supply Voltage	I	-
H2	0.75	GY/D-BU	7538	Left Front DRL Supply Voltage	I	-
H3	0.75	D-BU/BN	7539	Right Front DRL Supply Voltage	I	-
H4	0.75 0.5	WH WH	311 311	Right Headlamp High Beam Supply Voltage Right Headlamp High Beam Supply Voltage	III	-
H6	0.75	D-BU/BN	7539	Right Front DRL Supply Voltage	I	-
J1	0.5	YE/WH	58	Right Cornering Lamp Supply Voltage	I	-
J2	0.75	BN/GY	29	Horn Control	I	-
J3	0.5	BN/VT	2234	Front Fog Lamp Supply Voltage	I	-
J4	0.5 0.75	WH WH	711 711	Left Headlamp High Beam Supply Voltage Left Headlamp High Beam Supply Voltage	I	-
J5	0.75	YE	312	Right Headlamp Low Beam Supply Voltage	I	-
J6	0.75	GY/D-BU	7538	Left Front DRL Supply Voltage	I	-
K-L	-	-	-	Not Occupied	-	-
M4	0.5	WH/D-BU	3203	Right Headlamp Bulb Outage Signal	I	-
M5	0.5	D-BU/VT	3204	Left Headlamp Bulb Outage Signal	I	-
N-	-	-	-	Not Occupied	-	-

X50A Fuse Block - Underhood X2



Connector Part Information

Harness Type: Engine

OEM Connector: 13967717

Service Connector: Pending

Description: 58-Way F 1.5, 2.8, 800 Metri Pack Series (GN)

Terminal Part Information

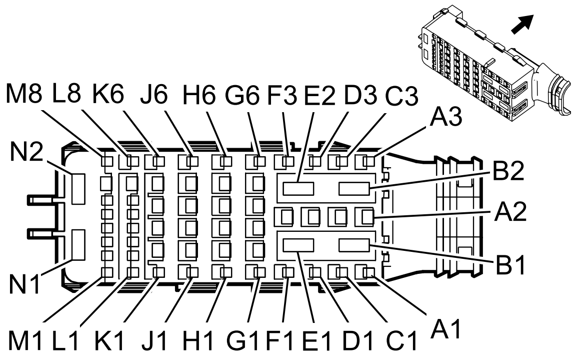
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available
II	13327105	J-35616-44 (YE)	J-38125-558	12110127	19	F	G

X50A Fuse Block - Underhood X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	0.5	WH/GY	459	A/C Compressor Clutch Relay Control	I	-
B	-	-	-	Not Occupied	-	-
C1	0.75	BN/L-GN	59	A/C Compressor Clutch Supply Voltage	I	-
D3	0.5	YE/BK	625	Starter Enable Relay Control	I	-
E2	4	YE	6	Starter Solenoid Crank Voltage	II	-
F2	2.5	BK	550	Ground	I	-
G3	0.5	VT/D-BU	5293	Powertrain Main Relay Fused Supply (4)	I	-
G4	2.5	VT/D-BU	5290	Powertrain Main Relay Fused Supply (1)	I	-
G5	0.75	RD/L-GN	1840	Battery Positive Voltage	I	-
G6	0.5	RD/WH	3440	Battery Positive Voltage	I	-
H2	0.75	VT/D-BU	5291	Powertrain Main Relay Fused Supply (2)	I	-
H3	0.75	VT/D-BU	5293	Powertrain Main Relay Fused Supply (4)	I	-
H5	0.5	RD/BN	440	Battery Positive Voltage	I	-
H6	0.5	YE	5991	Powertrain Relay Coil Control	I	-

J2	0.5	VT/D-BU	5294	Powertrain Main Relay Fused Supply (5)	I	-
J3	0.75	VT/D-BU	5291	Powertrain Main Relay Fused Supply (2)	I	-
J4	0.75	VT/D-BU	5292	Powertrain Main Relay Fused Supply (3)	I	-
J5	0.5	VT/D-BU	5294	Powertrain Main Relay Fused Supply (5)	I	-
K3	0.5	VT/D-BU	5291	Powertrain Main Relay Fused Supply (2)	I	-
K4	0.75	VT/D-BU	5292	Powertrain Main Relay Fused Supply (3)	I	-
K5	0.5	VT/D-BU	5292	Powertrain Main Relay Fused Supply (3)	I	-
L7	0.5	VT/BK	2139	Run/Crank Ignition 1 Voltage	I	-
M5	0.5	GY	5660	Fuel Pump Controller Data Out Signal	I	-
M6	0.75	BK/WH	451	Signal Ground	I	-
M7	0.5	VT/L-GN	439	Run/Crank Ignition 1 Voltage	I	-
N-	-	-	-	Not Occupied	-	-

X50A Fuse Block - Underhood X3



Connector Part Information

Harness Type: Body

OEM Connector: 13935987

Service Connector: Pending

Description: 58-Way F 1.5, 2.8, 800 Metri Pack Series (GY)

Terminal Part Information

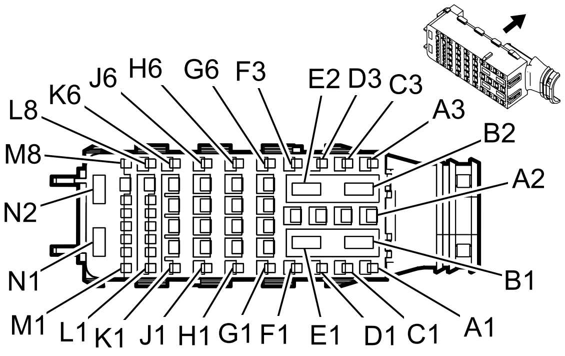
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available
II	13575543	J-35616-35 (VT)	J-38125-12A	1326030-8	17	B	F
III	13575718	J-35616-44 (YE)	J-38125-558	12110127	19	F	G
IV	13327105	J-35616-44 (YE)	J-38125-558	12110127	19	F	G
V	13578891	J-35616-2A (GY)	J-38125-11A	7116-4100-08	9	E	C

X50A Fuse Block - Underhood X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	0.5	YE/D-BU	18	Left Rear Stop/Turn Lamp Supply Voltage	I	-
A2	4	RD/GY	1342	Battery Positive Voltage	II	-
B2	2.5	RD/D-BU	1842	Battery Positive Voltage	III	-
C1	0.5	BN/L-GN	19	Right Rear Stop/Turn Lamp Supply Voltage	I	-
C2	4	RD/GY	1342	Battery Positive Voltage	II	-
D1	0.75	L-GN/VT	1315	Right Front Turn Signal Lamp Supply Voltage	I	-
E2	4	RD/WH	4042	Battery Positive Voltage	IV	-
F1	0.75	D-BU/WH	1314	Left Front Turn Signal Lamp Supply Voltage	I	-
G	-	-	-	Not Occupied	-	-
H2	1	BK	550	Ground	I	-
J1	0.35	WH/VT	860	Front Windshield Wiper Switch High Signal	I	-

K3	1	YE/BN	95	Windshield Wiper Motor Low Speed Control	I	-
K4	1	WH	92	Windshield Wiper Motor High Speed Control	I	-
K6	0.35	BN/GY	2268	Windshield Washer Relay Control	I	-
L1	0.75	GY/D-BU	7538	Left Front DRL Supply Voltage	I	-
L2	0.35	BN/VT	1969	Headlamp High Beam Relay Control	I	-
L3	0.35	L-GN/WH	2270	Rear Window Washer Relay Control	I	-
L4	0.35	GY	91	Windshield Wiper Motor Relay Coil Supply Voltage	I	-
L6	0.35	BN/WH	28	Horn Relay Control	I	-
L8	0.5	YE/GY	57	Left Cornering Lamp Supply Voltage	V	-
M3	0.5	YE/WH	58	Right Cornering Lamp Supply Voltage	V	-
M4	0.75	D-BU/BN	7539	Right Front DRL Supply Voltage	I	-
N-	-	-	-	Not Occupied	-	-

X50A Fuse Block - Underhood X4



Connector Part Information

Harness Type: Body

OEM Connector: 13935986

Service Connector: Pending

Description: 58-Way F 1.5, 2.8, 800 Metri Pack Series (BK)

Terminal Part Information

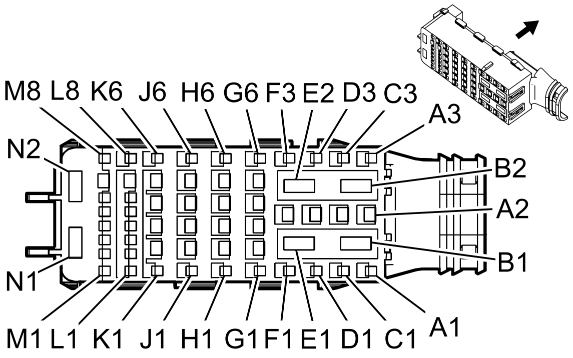
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available
II	13327105	J-35616-44 (YE)	J-38125-558	12110127	19	F	G
III	13575847	J-35616-44 (YE)	J-38125-558	12110127	19	Not Available	Not Available

X50A Fuse Block - Underhood X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A2	0.75	GY/YE	7542	Left Rear Stop Lamp Supply Voltage	I	-
A3	0.35	L-GN/WH	24	Backup Lamp Supply Voltage	I	-
B1	4	RD/GY	1042	Battery Positive Voltage	II	-
B2	5	RD/VT	842	Battery Positive Voltage	II	-
C1	0.75	WH/YE	7541	Right Rear Stop Lamp Supply Voltage	I	-
D	-	-	-	Not Occupied	-	-
E1	6	RD/WH	942		III	-
E2	5	RD/D-BU	42	Battery Positive Voltage	II	-
F	-	-	-	Not Occupied	-	-
G6	0.5	YE/BK	5356	Left Tail Lamp Outage Detection Signal	I	-
H5	2.5	RD/L-GN	242	Battery Positive Voltage	I	-
H6	0.5	VT/YE	5357	Right Tail Lamp Outage Detection Signal	I	-
J6	0.75	BK/WH	451	Signal Ground	I	-

K1	0.75	YE	712	Left Headlamp Low Beam Supply Voltage	I	-
L2	0.35	YE/GY	5187	Right Trailer Turn Signal Lamp	I	-
L3	0.35	D-BU/BN	38	Backup Lamp Relay Control	I	-
L4	0.35	D-BU/WH	5186	Left Trailer Turn Signal Lamp	I	-
L5	0.35	D-BU	45	Park Lamp Relay Control	I	-
M1	0.75	RD/YE	2340	Battery Positive Voltage	I	-
M5	0.35	L-GN/VT	5199	Run/Crank Relay Coil Control	I	-
N-	-	-	-	Not Occupied	-	-

X50A Fuse Block - Underhood X5



Connector Part Information

Harness Type: Chassis

OEM Connector: 13935988

Service Connector: Service by Harness - See Part Catalog

Description: 58-Way F 1.5, 2.8, 800 Metri Pack Series (NA)

Terminal Part Information

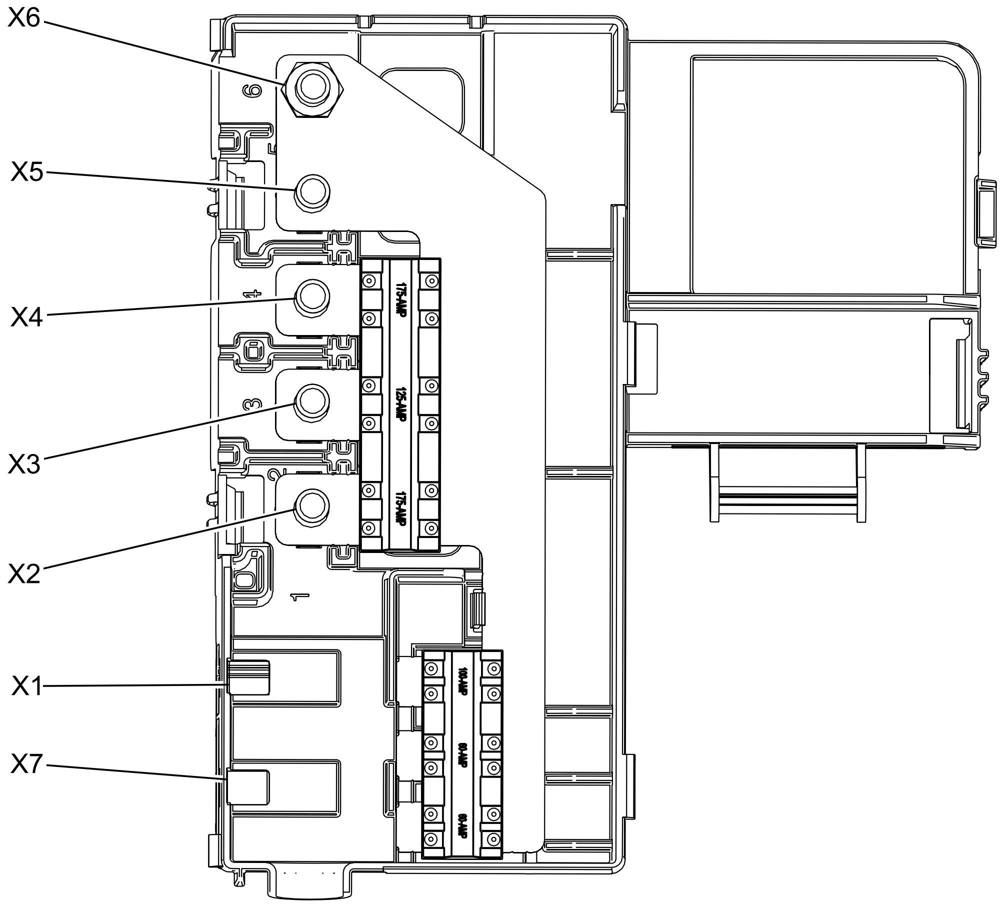
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available
II	13327105	J-35616-44 (YE)	J-38125-558	12110127	19	F	G
III	13575832	J-35616-35 (VT)	J-38125-11A	7116-4112-02	9	C	D

X50A Fuse Block - Underhood X5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	0.75	GY/YE	7542	Left Rear Stop Lamp Supply Voltage	I	-
A2	0.5	YE/D-BU	18	Left Rear Stop/Turn Lamp Supply Voltage	I	-
A3	0.5	BN/L-GN	19	Right Rear Stop/Turn Lamp Supply Voltage	I	-
B1	5	RD/YE	442	Battery Positive Voltage	II	-
C1	0.75	L-GN/WH	24	Backup Lamp Supply Voltage	I	-
C2	2.5	RD/YE	1142	Battery Positive Voltage	I	-
D3	0.75	WH/YE	7541	Right Rear Stop Lamp Supply Voltage	I	-
E1	4	RD/WH	1642	Battery Positive Voltage	II	-
F3	0.5	GY	3890	Aero Shutter Control 2	I	-
G1	0.5	YE/BK	5356	Left Tail Lamp Outage Detection Signal	I	-
G2	2.5	RD/VT	1940	Battery Positive Voltage	I	-
G3	3	RD/L-GN	2440	Battery Positive Voltage	III	-
G4	0.75	RD/WH	2040	Battery Positive Voltage	I	-

G6	0.75	RD/L-GN	2440	Battery Positive Voltage	I	-
H1	0.5	VT/YE	5357	Right Tail Lamp Outage Detection Signal	I	-
H3	0.5	RD/L-GN	1840	Battery Positive Voltage	I	-
H6	0.5	BN	3891	Aero Shutter Control	I	-
J2	2.5	RD/L-GN	242	Battery Positive Voltage	I	-
J3	1.5	GY/BN	2109	Trailer Park Lamp Supply Voltage	I	-
J4	2.5	RD/VT	1640	Battery Positive Voltage	I	-
J5	0.75 0.5	PU/L-GN VT/L-GN	439 439	Run/Crank Ignition 1 Voltage Run/Crank Ignition 1 Voltage	I	-
K1	0.5	VT/BK	739	Run/Crank Ignition 1 Voltage	I	-
K2	0.5	VT/GY	709	Left Park Lamp Supply Voltage	I	-
K4	0.5	GY/BN	309	Right Park Lamp Supply Voltage	I	-
K5	0.75	YE/GY	1618	Left Rear Trailer Stop/Turn Lamp Supply Voltage	I	-
K6	0.75	L-GN/VT	1619	Right Rear Trailer Stop/Turn Lamp Supply Voltage	I	-
L	-	-	-	Not Occupied	-	-
M5	0.5	GY	5660	Fuel Pump Controller Data Out Signal	I	-
M7	0.5	VT/D-BU	5294	Powertrain Main Relay Fused Supply (5)	I	-
M8	0.75	WH/L-GN	1624	Trailer Backup Lamp Supply Voltage	I	-
N2	4	RD/L-GN	742	Battery Positive Voltage	II	-

X50D Fuse Block - Battery Top View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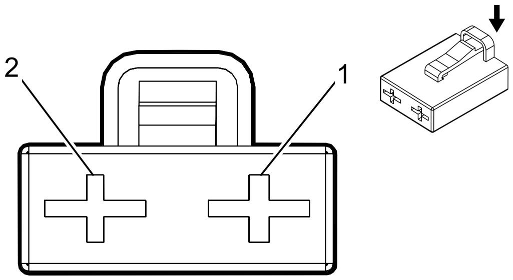


Connector Part Information

Harness Type: Body

OEM Connector: 13627842

Service Connector: Pending

Description: 2-Way F 8.0 Series (BU)

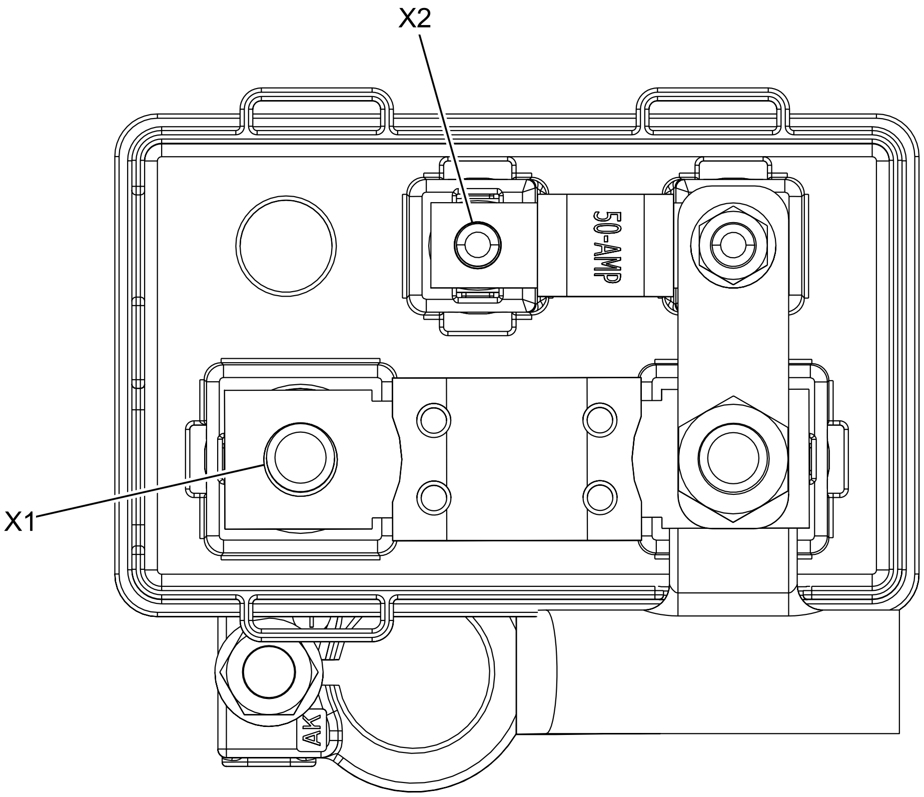
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X50D Fuse Block - Battery X7

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	6	RD/GY	142	Battery Positive Voltage	I	-
2	6	RD/L-GN	242	Battery Positive Voltage	I	-

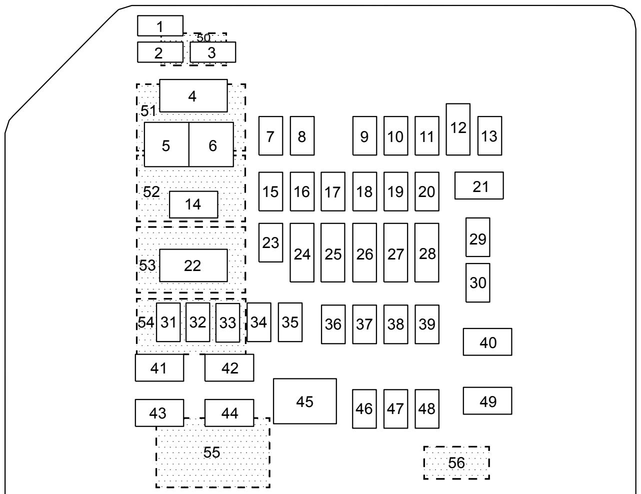
X50E Fuse Block - Battery Auxiliary Top View (5W4 or 9C1)



X50E Fuse Block – Battery Auxiliary Usage

No.	Device Label Name	Device Assigned Name	Rating	Description
1	—	F1UE	100A	KR79 Auxiliary Battery Relay 2, X53A Fuse Block — Rear Body
2	—	F2UE	50A	W9 Blunt Cut — Police Provision

X51L Fuse Block - Instrument Panel Left Label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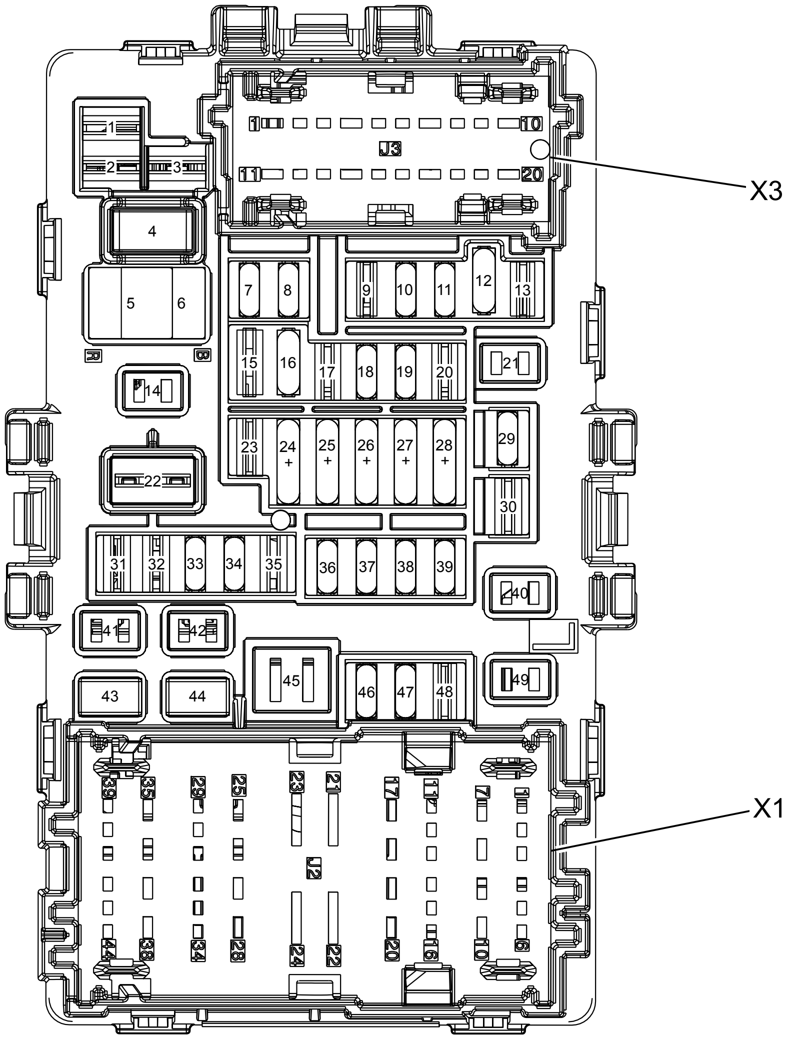
1	EMPTY
2	EMPTY
3	EMPTY
4	AP0 1 (15A)
5	AP0 / RAP (50A)
6	AP0 / BATT (50A)
7	UGDO ISRVM (10A)
8	SEO RAP (10A)
9	EMPTY
10	BCM 3 (20A)
11	BCM 5 (10A)
12	SWC BKLT (2A)
13	EMPTY
14	EMPTY
15	EMPTY
16	DLIS (2A)
17	EMPTY
18	MIR WNDO MDL (5A)
19	BCM 1 (10A)
20	EMPTY
21	EMPTY
22	EMPTY
23	EMPTY
24	HVAC / AUX HVAC IGN (15A/15A)
25	IPC IGN / SDM IGN (10A/10A)
26	TILT COL / SEO TILT COL LCK1 / SEO (15A/15A)
27	DLC / DSM (10A/10A) (15A)
28	PEPS / HVAC BATT (10A/10A)
29	THEFT DTRNT (10A)
30	EMPTY
31	EMPTY
32	EMPTY
33	SEO ALC (15A)
34	PRK ENBL / EAP (15A)
35	EMPTY
36	MISC RUN CRNK (10A)
37	HTD STR WHL (7.5A)
38	TILT COL LCK2 (10A)
39	IPC (10A)
40	EMPTY
41	EMPTY
42	EMPTY
43	LT DR (30A)
44	DRVR PWR SEAT (30A)
45	EMPTY
46	RT HTD CLD SEAT (15A)
47	LT HTD CLD SEAT (15A)
48	EMPTY
49	EMPTY
50	APO 2 (15A)
51	EMPTY
52	RAP / ACCY (RLY)
53	RUN CRNK (RLY)
54	EMPTY
55	EMPTY
56	EMPTY

X51L Fuse Block - Instrument Panel Left Top View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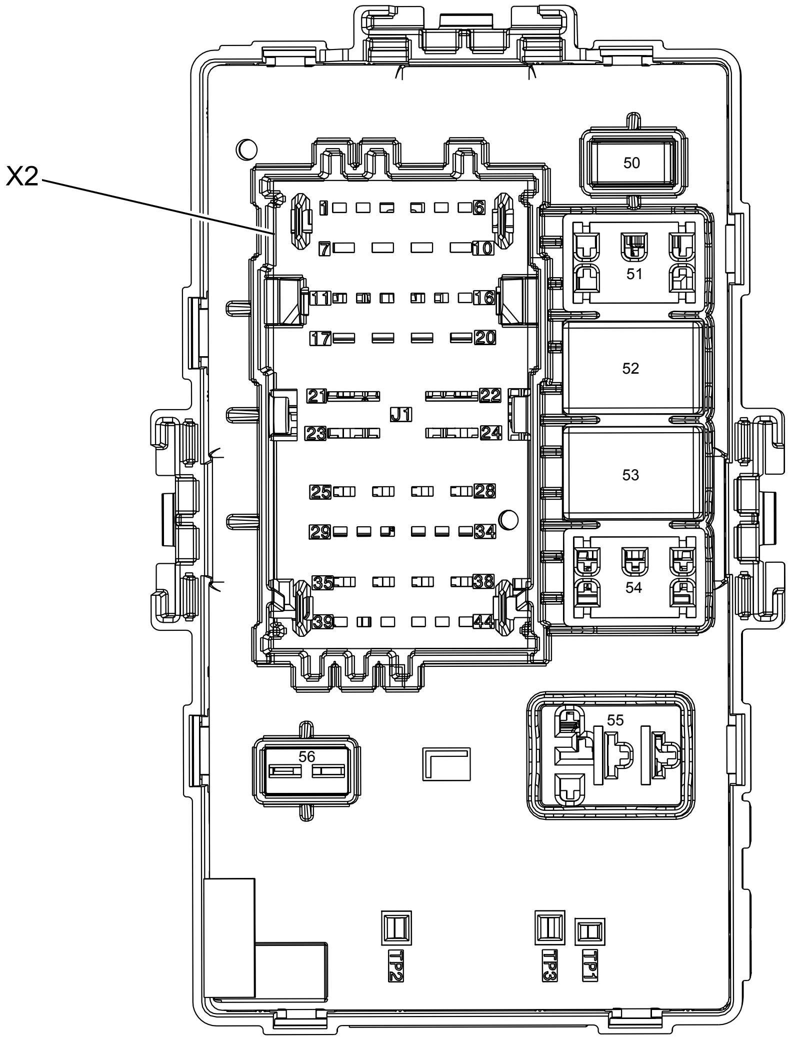
X50L Fuse Block - Instrument Panel Left Usage

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
1	EMPTY	F1DL	-	Not Used
2	EMPTY	F2DL	-	Not Used
3	EMPTY	F3DL	-	Not Used
4	APO 1 (15A)	F4DL	15A	E32 Cigarette Lighter Receptacle (DT4), X80A Accessory Power Receptacle - Center Console 1 (without DT4)
5	APO/RAP (50A)	F5DL	50A	F4DL, F50DL
6	APO/BATT (50A)	F6DL	50A	F4DL, F50DL
7	UGDO ISRVM (10A)	F7DL	10A	S25 Garage Door Opener (UG1), S63 Roof Beacon Switch (TRW)
8	SEO RAP (10A)	F8DL	10A	M69 Sunroof Motor (CF5), T22 Mobile Device Wireless Charger Module (K4C), W9 Blunt Cut - Police Provision (5W4 or 9C1)

9	EMPTY	F9DL	-	Not Used
10	BCM 3 (20A)	F10DL	20A	K9 Body Control Module
11	BCM 5 (10A)	F11DL	10A	K9 Body Control Module
12	SWC BKLT (2A)	F12DL	2A	S70L Steering Wheel Controls Switch - Left
13	EMPTY	F13DL	-	Not Used
14	EMPTY	F14DL	-	Not Used
15	EMPTY	F15DL	-	Not Used
16	DLIS (2A)	F16DL	2A	S39 Ignition Switch (without BTM)
17	VPM (10A)	F17DL	10A	K157 Video Processing Control Module (UVH)
18	MIR WNDO MDL (5A)	F18DL	5A	S52 Outside Rearview Mirror Switch, S79D Window Switch - Driver
19	BCM 1 (10A)	F19DL	10A	K9 Body Control Module
20	EMPTY	F20DL	-	Not Used
21	EMPTY	F21DL	-	Not Used
22	EMPTY	F22DL	-	Not Used
23	EMPTY	F23DL	-	Not Used
24	HVAC/AUX HVAC IGN (15A/15A)	F24DL	15A	K33 HVAC Control Module, K175 Center Console Compartment Cooler Control Module (DCK)
25	IPC IGN/SDM IGN (10A/10A)	F25DL	10A	P14 Passenger Air Bag Disabled Indicator, P16 Instrument Cluster, P43 Collision Alert Indicators (UEU without UVC)
26	TILT COL/SEO TILT COL LCK1/SEO (15A/15A)	F26DL	15A	E35L Exterior Spot Lamp - Left (7X6 or 7X7), E35R Exterior Spot Lamp - Right (7X7), K60 Steering Column Lock Module (BTM), K99 Steering Column Position Control Module (N38)
27	DLC/DSM (10A/10A)	F27DL	10A	K40D Seat Memory Control Module - Driver (A45), K40P Seat Memory Control Module - Passenger (AG2), X84 Data Link Connector
28	PEPS/HVAC BATT (10A/10A)	F28DL	10A	K33 HVAC Control Module, K84 Keyless Entry Control Module (BTM)
29	THEFT DTRNT (10A)	F29DL	10A	B165 Content Theft Deterrent Sensor Module (UTU or UTV), P4 Security Siren (UTR)
30	EMPTY	F30DL	-	Not Used
31	EMPTY	F31DL	-	Not Used
32	EMPTY	F32DL	-	Not Used
33	SEO ALC (15A)	F33DL	15A	W9 Blunt Cut - Police Provision (5W4 or 9C1)
34	PRK ENBL/EAP (15A)	F34DL	10A	KR16B Park Brake Relay, KR1F Adjustable Pedal Relay - Forward, KR1R Adjustable Pedal Relay - Rearward, M5 Adjustable Pedal Motor (JF4 without A45)
35	EMPTY	F35DL	-	Not Used
36	MISC RUN CRNK (10A)	F36DL	10A	A10 Inside Rear View Mirror (AZ3 or DD8), A34 HVAC Controls - Auxiliary (AZ3 or DD8), B87 Rearview Camera (UVC), K69 Transfer Case Control Module (NQH or NP0)
37	HTD STR WHL (7.5A)	F37DL	7.5A	K32 Steering Wheel Heating Control Module (UVD)

37	HTD STR WHL (7.5A)	F37DL	7.5A	K32 Steering Wheel Heating Control Module (UVD)
38	TILT COL LCK2 (10A)	F38DL	10A	K60 Steering Column Lock Module (BTM)
39	IPC (10A)	F39DL	10A	K78 Head-Up Display Module (UV6), P16 Instrument Cluster, P17 Info Display Module, S31D Seat Heating and Cooling Switch - Driver (KB6 without Z75), S31P Seat Heating and Cooling Switch - Passenger (KB6 without Z75)
40	EMPTY	F40DL	-	Not Used
41	EMPTY	F41DL	-	Not Used
42	EMPTY	F42DL	-	Not Used
43	LT DR (30A)	F43DL	30A	M74D Window Motor - Driver, S79LR Window Switch - Left Rear
44	DRVR PWR SEAT (30A)	F44DL	30A	K40D Seat Memory Control Module - Driver (A45), S64D Seat Adjuster Switch - Driver (without A45)
45	EMPTY	F45DL	-	Not Used
46	RT HTD CLD SEAT (15A)	F46DL	15A	K53P Seat Blower Assembly - Passenger Back (KB6), K55P Seat Blower Assembly - Passenger Cushion (KB6)
47	LT HTD CLD SEAT (15A)	F47DL	15A	K53D Seat Blower Assembly - Driver Back (KB6), K55P Seat Blower Assembly - Driver Cushion (KB6)
48	EMPTY	F48DL	-	Not Used
49	EMPTY	F49DL	-	Not Used

X51L Fuse Block - Instrument Panel Left Bottom View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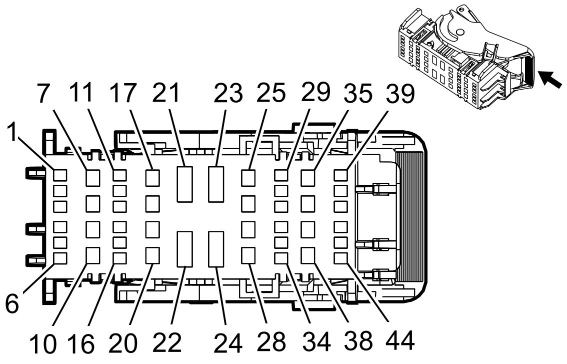
X50L Fuse Block - Instrument Panel Left Usage

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
50	APO 2 (15A)	F50DL	15A	X80J Accessory Power Receptacle - Instrument Panel 1
56	EMPTY	F56DL	-	Not Used
Relays				
51	EMPTY	-	-	Not Used
52	RAP/ACCY (RLY)	KR76A Retained Accessory Power Relay 1	-	F8DL, F5DL
53	RUN CRNK (RLY)	KR73 Ignition Main Relay	-	F24DL, F25DL, F33DL, F36DL, F37DL, F38DL
54	EMPTY	-	-	Not Used
55	EMPTY	-	-	Not Used
Important: Relays listed below are non-serviceable Printed Circuit Board (PCB) relays and are internal to the block.				

-	-	KR87 Transmission Park Position Relay	-	KR1F Adjustable Pedal Relay - Forward (JF4 without A45), KR1R Adjustable Pedal Relay - Rearward (JF4 without A45), S143L Folding Seat Control Switch — 2nd Row Left (ATN or ATT), S143R Folding Seat Control Switch — 2nd Row Right (ATN or ATT), S144A Folding Seat Control Switch — Rear Compartment 2nd Row (ATN or ATT), S144B Folding Seat Control Switch — Rear Compartment 3rd Row (ATN or ATT)
-	-	KR1F Adjustable Pedal Relay - Forward	-	M5 Adjustable Pedal Motor (JF4 without A45)
-	-	KR1R Adjustable Pedal Relay - Rearward	-	M5 Adjustable Pedal Motor (JF4 without A45)

X51L Fuse Block - Instrument Panel Left X1



Connector Part Information

Harness Type: Body

OEM Connector: 13967687

Service Connector: Pending

Description: 44-Way F 1.5, 2.8, 800 Metri Pack Series (BK)

Terminal Part Information

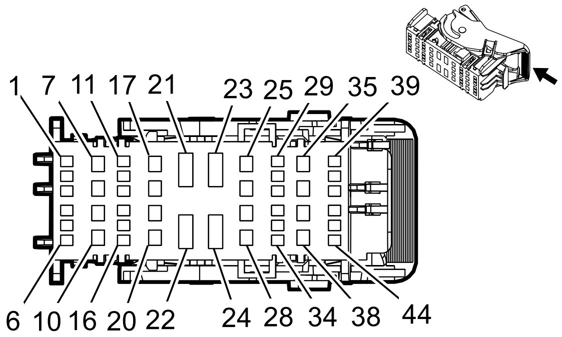
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available
II	13327105	J-35616-44 (YE)	J-38125-558	12110127	19	F	G

X51L Fuse Block - Instrument Panel Left X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	RD/BN	2240	Battery Positive Voltage	I	-
2	0.5	RD/D-BU	4540	Battery Positive Voltage	I	-
3	-	-	-	Not Occupied	-	-
4	0.75	RD/L-GN	5140	Battery Positive Voltage	I	-
5	0.5 0.35	RD/L-GN RD/L-GN	4440 4440	Battery Positive Voltage Battery Positive Voltage	I	-
6-13	-	-	-	Not Occupied	-	-
14	0.5	RD/YE	4340	Battery Positive Voltage	I	-
15	-	-	-	Not Occupied	-	-
16	0.5	RD/VT	1940	Battery Positive Voltage	I	-
17	2.5	RD/YE	3740	Battery Positive Voltage	I	-
18	0.75	RD/L-GN	5140	Battery Positive Voltage	I	-
19-20	-	-	-	Not Occupied	-	-
21	5	RD/VT	842	Battery Positive Voltage	II	-
22	-	-	-	Not Occupied	-	-

22	-	-	-	Not Occupied	-	-
23	5	RD/D-BU	42	Battery Positive Voltage	II	-
24-26	-	-	-	Not Occupied	-	-
27	2.5	RD/YE	5040	Battery Positive Voltage	I	-
28-29	-	-	-	Not Occupied	-	-
30	0.5	VT/WH	1939	Run/Crank Ignition 1 Voltage	I	-
31	-	-	-	Not Occupied	-	-
32	0.5	VT/L-GN	1739	Run/Crank Ignition 1 Voltage	I	-
33	-	-	-	Not Occupied	-	-
34	0.5	YE/BK	5813	Park Enable Supply Voltage	I	-
35	-	-	-	Not Occupied	-	-
36	2.5	RD/D-BU	1842	Battery Positive Voltage	I	-
37	2.5	RD/D-BU	1842	Battery Positive Voltage	I	-
38-41	-	-	-	Not Occupied	-	-
42	0.35	L-GN/VT	5199	Run/Crank Relay Coil Control	I	-
43	0.35	GY/L-GN	4083	RAP Relay 2 Coil Control	I	-
44	0.35	VT/YE	43	Accessory Voltage	I	-

X51L Fuse Block - Instrument Panel Left X2



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13967688

Service Connector: Pending

Description: 44-Way F 1.5, 2.8, 800 Metri Pack Series (GY)

Terminal Part Information

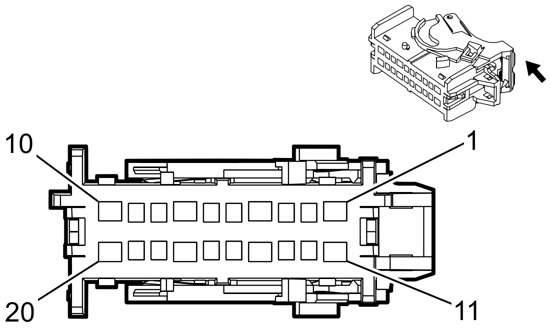
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X51L Fuse Block - Instrument Panel Left X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-2	-	-	-	Not Occupied	-	-
3	0.5	YE	6817	LED Backlight Dimming Control	I	-
4	0.35	BN	6136	Supply Voltage	I	-
5	0.5	RD/D-BU	540	Battery Positive Voltage	I	-
6	-	-	-	Not Occupied	-	-
7	0.5	RD/BN	2940	Battery Positive Voltage	I	-
8	1	RD/GY	2140	Battery Positive Voltage	I	-
9	-	-	-	Not Occupied	-	-
10	1.5	RD/BN	4240	Battery Positive Voltage	I	-
11-13	-	-	-	Not Occupied	-	-
14	0.75	RD/GY	4140	Battery Positive Voltage	I	-
15	0.5	VT/GY	539	Run/Crank Ignition 1 Voltage	I	-
16-17	-	-	-	Not Occupied	-	-
18	0.5	RD/WH	2740	Battery Positive Voltage	I	-
19	-	-	-	Not Occupied	-	-

20	1.5	RD/WH	1040	Battery Positive Voltage	I	-
21-24	-	-	-	Not Occupied	-	-
25	0.5	RD/VT	3340	Battery Positive Voltage	I	-
26	0.35 0.5	RD/D-BU RD/WH	3240 640	Battery Positive Voltage Battery Positive Voltage	I	-
27	1.5	RD/VT	4640	Battery Positive Voltage	I	-
28	0.5	VT/BK	1639	Run/Crank Ignition 1 Voltage	I	-
29-34	-	-	-	Not Occupied	-	-
35	0.5	RD/GY	2840	Battery Positive Voltage	I	-
36	0.75	D-BU/VT	807	OFF /Accessory Voltage	I	-
37	0.5	VT/WH	1139	Run/Crank Ignition 1 Voltage	I	-
38	0.35	VT/L-GN	1739	Run/Crank Ignition 1 Voltage	I	-
39-42	-	-	-	Not Occupied	-	-
43	0.35	YE	6812	Out of Park Signal	I	-
44	0.75	BK	1850	Ground	I	-

X51L Fuse Block - Instrument Panel Left X3



Connector Part Information

Harness Type: Overhead Console

OEM Connector: 15522322

Service Connector: Pending

Description: 20-Way F 1.5, 2.8 Series (BK)

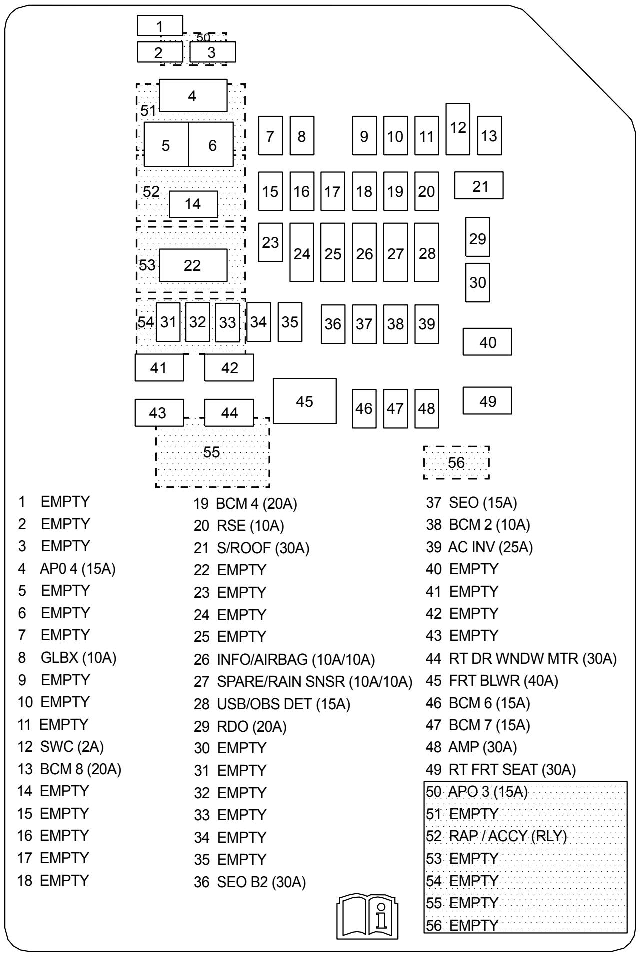
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X51L Fuse Block - Instrument Panel Left X3

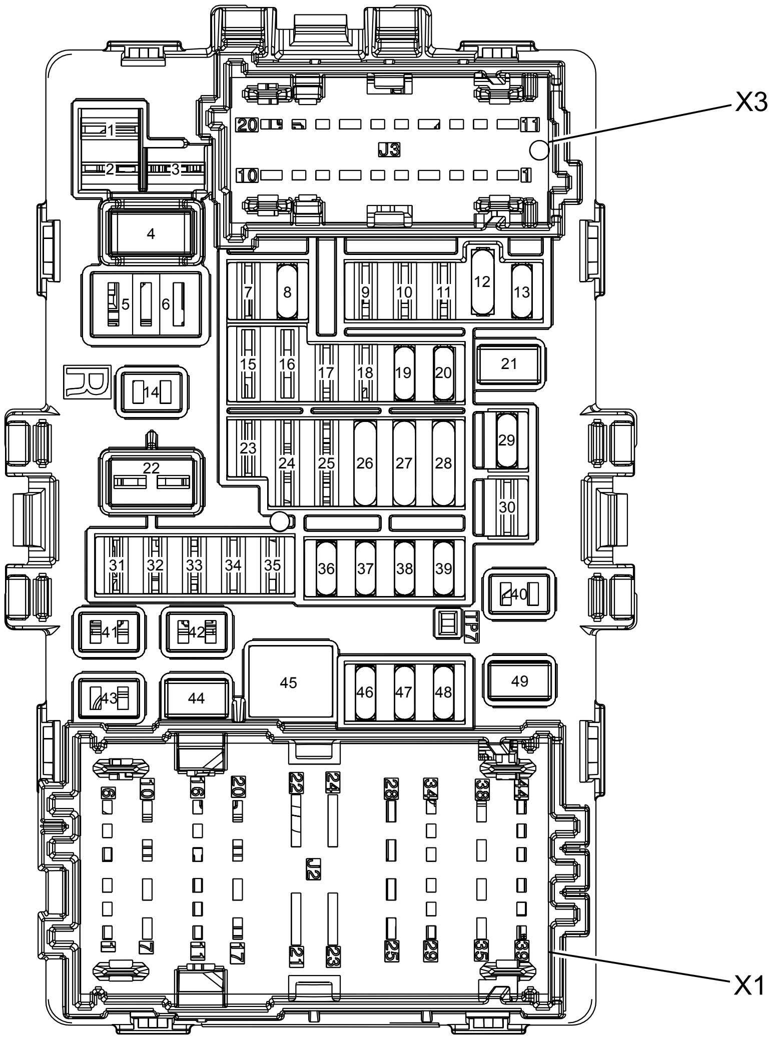
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-10	-	-	-	Not Occupied	-	-
11	0.35	VT/YE	43	Accessory Voltage	I	-
12	0.5	RD/YE	240	Battery Positive Voltage	I	-
13	0.35	VT/L-GN	1739	Run/Crank Ignition 1 Voltage	I	-
14	0.35	VT/WH	1139	Run/Crank Ignition 1 Voltage	I	-
15-20	-	-	-	Not Occupied	-	-

X51R Fuse Block - Instrument Panel Right Label



1	EMPTY
2	EMPTY
3	EMPTY
4	AP0 4 (15A)
5	EMPTY
6	EMPTY
7	EMPTY
8	GLBX (10A)
9	EMPTY
10	EMPTY
11	EMPTY
12	SWC (2A)
13	BCM 8 (20A)
14	EMPTY
15	EMPTY
16	EMPTY
17	EMPTY
18	EMPTY
19	BCM 4 (20A)
20	RSE (10A)
21	S/ROOF (30A)
22	EMPTY
23	EMPTY
24	EMPTY
25	EMPTY
26	INFO/AIRBAG (10A/10A)
27	SPARE/RAIN SNSR (10A/10A)
28	USB/OBS DET (15A)
29	RDO (20A)
30	EMPTY
31	EMPTY
32	EMPTY
33	EMPTY
34	EMPTY
35	EMPTY
36	SEO B2 (30A)
37	SEO (15A)
38	BCM 2 (10A)
39	AC INV (25A)
40	EMPTY
41	EMPTY
42	EMPTY
43	EMPTY
44	RT DR WNDW MTR (30A)
45	FRT BLWR (40A)
46	BCM 6 (15A)
47	BCM 7 (15A)
48	AMP (30A)
49	RT FRT SEAT (30A)
50	APO 3 (15A)
51	EMPTY
52	RAP / ACCY (RLY)
53	EMPTY
54	EMPTY
55	EMPTY
56	EMPTY

X51R Fuse Block - Instrument Panel Right Top View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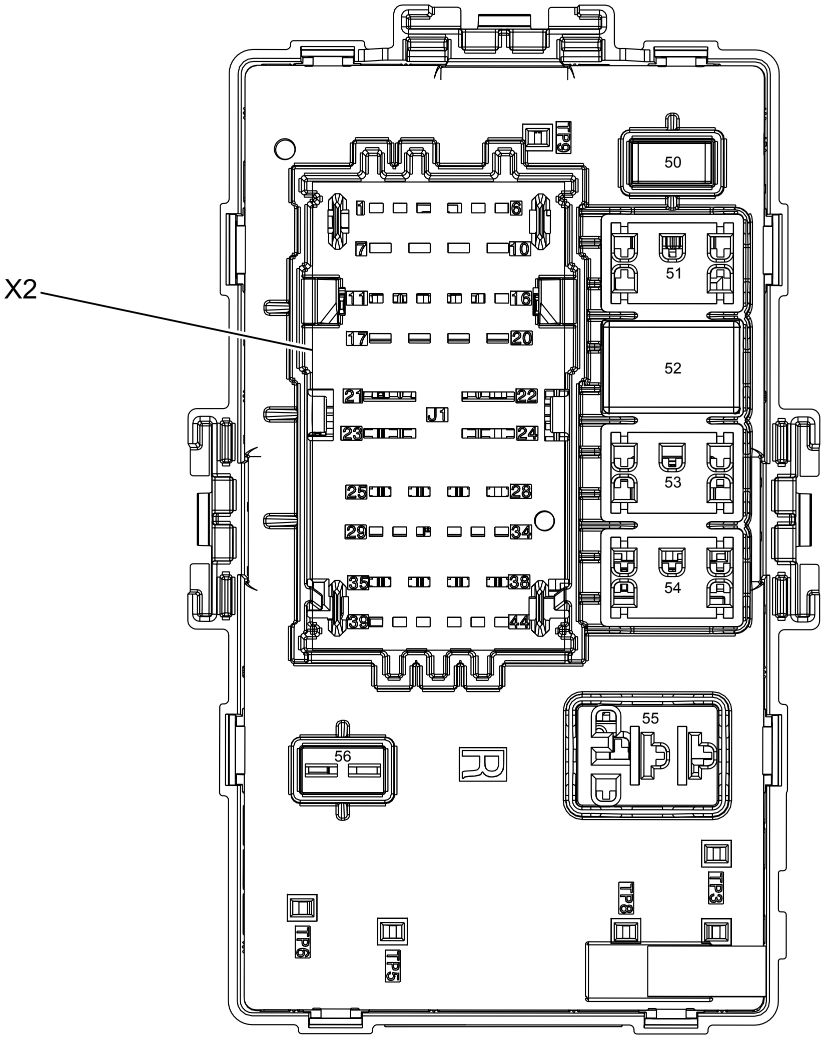
X50R Fuse Block - Instrument Panel Right Usage

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
1	EMPTY	F1DR	-	Not Used
2	EMPTY	F2DR	-	Not Used
3	EMPTY	F3DR	-	Not Used
4	APO 4 (15A)	F4DR	15A	X80D Accessory Power Receptacle - Center Console Compartment
5	EMPTY	F5DR	-	Not Used
6	EMPTY	F6DR	-	Not Used
7	EMPTY	F7DR	-	Not Used
8	GLBX (10A)	F8DR	-	KR147 Instrument Panel Compartment Door Unlatch Actuator Relay (Z75), M91 Instrument Panel Compartment Door Unlatch Actuator (Z75)
9	EMPTY	F9DR		Not Used

9	EMPTY	F9DR	-	Not Used
10	EMPTY	F10DR	-	Not Used
11	EMPTY	F11DR	-	Not Used
12	SWC (2A)	F12DR	2A	S70L Steering Wheel Controls Switch - Left, S70R Steering Wheel Controls Switch - Right
13	BCM 8 (20A)	F13DR	20A	K9 Body Control Module
14	EMPTY	F14DR	-	Not Used
15	EMPTY	F15DR	-	Not Used
16	EMPTY	F16DR	-	Not Used
17	EMPTY	F17DR	-	Not Used
18	EMPTY	F18DR	-	Not Used
19	BCM 4 (20A)	F19DR	-	K9 Body Control Module
20	RSE (10A)	F20DR	10A	P22A Video Display - 2nd Row (U42), P22B Video Display - 3rd Row (DNU), S48C Multifunction Switch 1 - Instrument Panel (Z75), S48D Multifunction Switch 2 - Instrument Panel (Z75), S140 Media Disc Eject Switch (TG5 or U42)
21	S/ROOF (30A)	F21DR	30A	KR58 Roof Beacon Relay (TRW), M69 Sunroof Motor (CF5)
22	EMPTY	F22DR	-	Not Used
23	EMPTY	F23DR	-	Not Used
24	EMPTY	F24DR	-	Not Used
25	EMPTY	F25DR	-	Not Used
26	INFO/AIRBAG (10A/10A)	F26DR	10A	K36 Inflatable Restraint Sensing and Diagnostic Module , K73 Telematics Communication Interface Control Module (UE1), K85 Passenger Presence Module
27	SPARE/RAIN SNSR (10A/10A)	F27DR	10A	B200 Rain Sensor Module, S79P Window Switch - Passenger
28	USB / OBS DET (15A)	F28DR	15A	B174 Frontview Camera (UEU or UFL), B218R Side Object Sensor Module - Right (UKC), K14 Distance Sensing Cruise Control Module (K59), K41 Front and Rear Parking Assist Control Module (UD5 or UD7), K124 Active Saftey Control Module (UGN), X83 Auxiliary Audio Input (AZ3)
29	RDO (20A)	F29DR	20A	A11 Radio, A33 Media Disc Player, K74 Human Machine Interface Control Module (IO5 or IO6), X82 Audio/Video Input Adapter (D07 with U42), X83 Auxiliary Audio Input (D07)
30	EMPTY	F30DR	-	Not Used
31	EMPTY	F31DR	-	Not Used
32	EMPTY	F32DR	-	Not Used
33	EMPTY	F33DR	-	Not Used
34	EMPTY	F34DR	-	Not Used
35	EMPTY	F35DR	-	Not Used
36	SEO B2 (30A)	F36DR	30A	X61A Junction Block - Instrument Panel
37	SEO (15A)	F37DR	15A	Not Used

37	SEO (15A)	F37DR	15A	Not Used
38	BCM 2 (10A)	F38DR	10A	K9 Body Control Module
39	AC INV (25A)	F39DR	25A	T1 Accessory DC/AC Power Inverter Module (KI4 or KI5)
40	EMPTY	F40DR	-	Not Used
41	EMPTY	F41DR	-	Not Used
42	EMPTY	F42DR	-	Not Used
43	EMPTY	F43DR	-	Not Used
44	RT DR WNDW MTR (30A)	F44DR	30A	M74P Window Motor - Passenger, S79P Window Switch - Passenger
45	FRT BLWR (40A)	F45DR	40A	M8 Blower Motor
46	BCM 6 (15A)	F46DR	15A	K9 Body Control Module
47	BCM 7 (15A)	F47DR	15A	K9 Body Control Module
48	AMP (30A)	F48DR	30A	T3 Audio Amplifier (IO5 or IO6)
49	RT FRT SEAT (30A)	F49DR	30A	K40P Seat Memory Control Module - Passenger (AG2 with ULT), S64P Seat Adjuster Switch - Passenger (AG2 without ULT)

X51R Fuse Block - Instrument Panel Right Bottom View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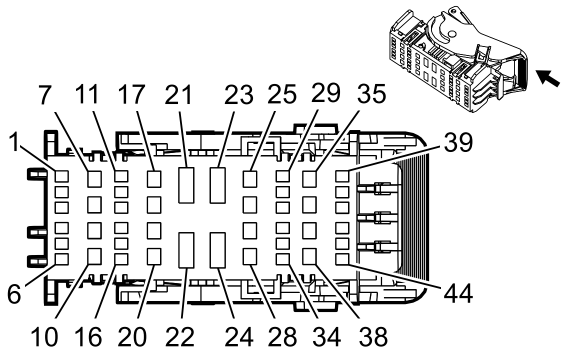
X50R Fuse Block - Instrument Panel Right Usage

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
50	APO 3 (15A)	F50DR	15A	Not Used
56	EMPTY	F56DR	-	Not Used
Relays				
51	EMPTY	-	-	Not Used
52	RAP / ACCY (RLY)	KR76B Retained Accessory Power Relay 2	-	F4DR, F50DR
53	EMPTY	-	-	Not Used
54	EMPTY	-	-	Not Used
55	EMPTY	-	-	Not Used
Important: Relays listed below are non-serviceable Printed Circuit Board (PCB) relays and are internal to the block.				

-	KR147 Instrument Panel Compartment Door Unlatch Actuator Relay (Z75)	-	-	M91 Instrument Panel Compartment Door Unlatch Actuator (Z75)

X51R Fuse Block - Instrument Panel Right X1



Connector Part Information

Harness Type: Body

OEM Connector: 13967689

Service Connector: Pending

Description: 44-Way F 1.5, 2.8, 800 Metri Pack Series (NA)

Terminal Part Information

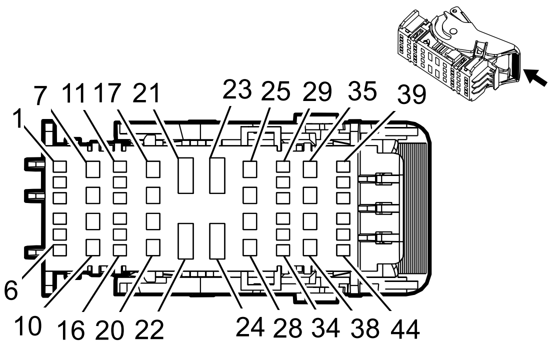
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available
II	13580076	J-35616-44 (YE)	J-38125-558	12110127	19	Not Available	Not Available
III	13327105	J-35616-44 (YE)	J-38125-558	12110127	19	F	G
IV	Pending	J-35616-44 (YE)	J-38125-558	12110127	19	Not Available	Not Available

X51R Fuse Block - Instrument Panel Right X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	GY	295	Door Lock Actuator Lock Control	I	-
2	1.5	WH/D-BU	3266	Child Security Lock Motor Unlock Control	I	-
3	0.35	VT/YE	3267	Child Security Lock Relay Control	I	-
4	1.5	GY/L-GN	3271	Door Lock Control (2)	I	-
5	-	-	-	Not Occupied	-	-
6	0.35	GY/L-GN	4083	RAP Relay 2 Coil Control	I	-
7-14	-	-	-	Not Occupied	-	-
15	0.35	RD/D-BU	840	Battery Positive Voltage	I	-
16	0.5	RD/BN	1140	Battery Positive Voltage	I	-
17	-	-	-	Not Occupied	-	-
18	1.5	VT/YE	143	Accessory Voltage	I	-
19	2.5	RD/WH	1340	Battery Positive Voltage	I	-

20	2.5	RD/WH	1340	Battery Positive Voltage		I	-
21	6	RD/L-GN	242	Battery Positive Voltage		II	-
22	4	RD/VT	542	Battery Positive Voltage		III	-
23	-	-	-	Not Occupied		-	-
24	6	RD/GY	142	Battery Positive Voltage		IV	-
25-28	-	-	-	Not Occupied		-	-
29	1.5	D-BU/WH	195	Door Lock Control		I	-
30	1.5	BN	5910	Door Double Lock Actuator Lock Control		I	-
31	-	-	-	Not Occupied		-	-
32	0.5	L-GN/BN	6132	Linear Interconnect Network Bus 1		I	-
33	0.75	RD/WH	3440	Battery Positive Voltage		I	-
34	0.75	RD/WH	2740	Battery Positive Voltage		I	-
35-36	-	-	-	Not Occupied		-	-
37	0.75	RD/L-GN	6140	Battery Positive Voltage		I	-
38	2.5	RD/BN	1440	Battery Positive Voltage		I	-
39	-	-	-	Not Occupied		-	-
40	0.75	GY	5911	Door Lock Actuator Lock Control 2		I	-
41	0.35	D-BU/BN	7547	Security Lock Relay Control		I	-
42	0.5 0.35	RD/D-BU RD/D-BU	840 840	Battery Positive Voltage Battery Positive Voltage		I	-
43	0.75	RD/L-GN	3140	Battery Positive Voltage		I	-
44	-	-	-	Not Occupied		-	-

X51R Fuse Block - Instrument Panel Right X2



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13967690

Service Connector: Pending

Description: 44-Way F 1.5, 2.8, 800 Metri Pack Series (GN)

Terminal Part Information

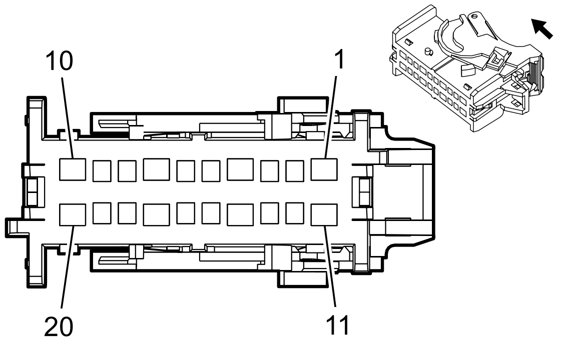
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available
II	13575718	J-35616-44 (YE)	J-38125-558	12110127	19	F	G
III	Pending	J-35616-35 (VT)	J-38125-12A	1326030-8	17	A	4

X51R Fuse Block - Instrument Panel Right X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/L-GN	1540	Battery Positive Voltage	I	-
2	0.35	BN/WH	4046	Glove Box Door Release Relay Control	I	-
3-6	-	-	-	Not Occupied	-	-
7	0.75	RD/VT	4040	Battery Positive Voltage	I	-
8	0.75	RD/D-BU	2540	Battery Positive Voltage	I	-
9	-	-	-	Not Occupied	-	-
10	1.5 1.5	VT/YE RD/D-BU	243 840	Accessory Voltage Battery Positive Voltage	I	-
11-15	-	-	-	Not Occupied	-	-
16	0.35	RD/YE	3040	Battery Positive Voltage	I	-
17	1	RD/VT	340	Battery Positive Voltage	I	-
18	-	-	-	Not Occupied	-	-
19	0.5	BN/GY	4048	Glove Box Door Release Control	I	-
20-21	-	-	-	Not Occupied	-	-

20-21	-	-	-	Not Occupied	-	-
22	2.5	BK	1050	Ground	II	-
23-28	-	-	-	Not Occupied	-	-
29	0.5	RD/BN	2240	Battery Positive Voltage	I	-
30-33	-	-	-	Not Occupied	-	-
34	0.5 0.35	RD/WH RD/D-BU	640 3240	Battery Positive Voltage Battery Positive Voltage	I	-
35	2.5	RD/GY	4140	Battery Positive Voltage	I	-
36-37	-	-	-	Not Occupied	-	-
38	1.5	RD/YE	2340	Battery Positive Voltage	I	-
39-41	-	-	-	Not Occupied	-	-
42	0.5	RD/L-GN	3840	Battery Positive Voltage	I	-
43-44	-	-	-	Not Occupied	-	-

X51R Fuse Block - Instrument Panel Right X3



Connector Part Information

Harness Type: Overhead Console

OEM Connector: 13924035

Service Connector: Pending

Description: 20-Way F 1.5, 2.8 OCS Series (GY)

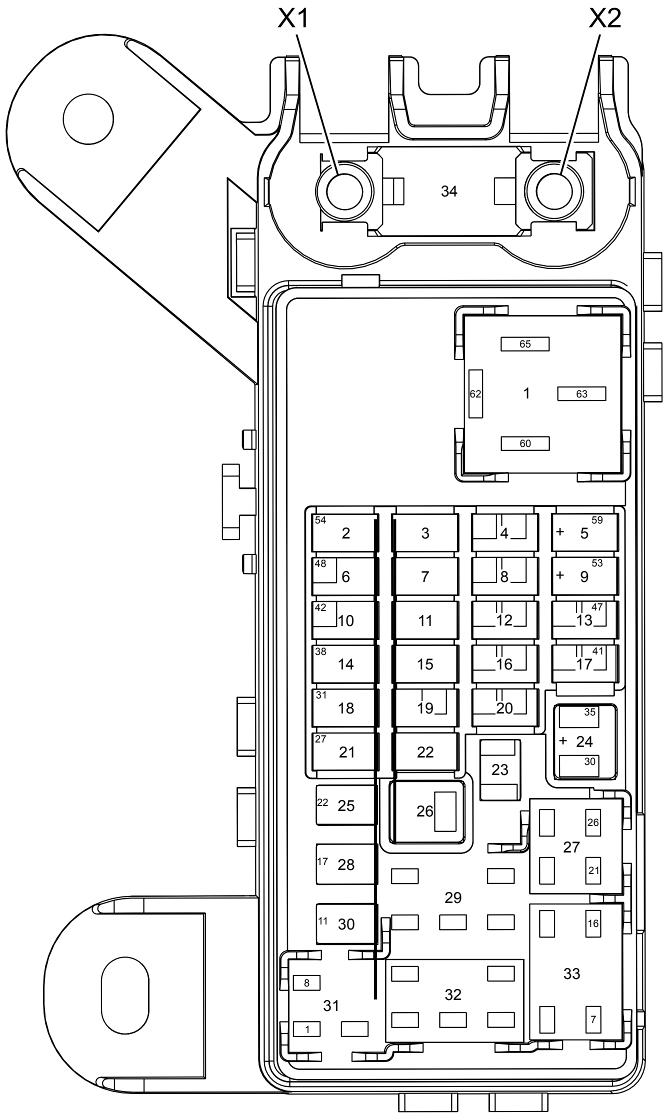
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available
II	13579912	J-35616-35 (VT)	J-38125-11A	7116-4112-02	9	C	D

X51R Fuse Block - Instrument Panel Right X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	RD/L-GN	3140	Battery Positive Voltage	I	-
2	0.5	L-GN/BN	6132	Linear Interconnect Network Bus 1	I	-
3-7	-	-	-	Not Occupied	-	-
8	0.35	RD/D-BU	840	Battery Positive Voltage	I	-
9	-	-	-	Not Occupied	-	-
10	2.5 0.35	BK BK	1050 1050	Ground Ground	I	-
11-20	-	-	-	Not Occupied	-	-

X53A Fuse Block - Rear Body Top View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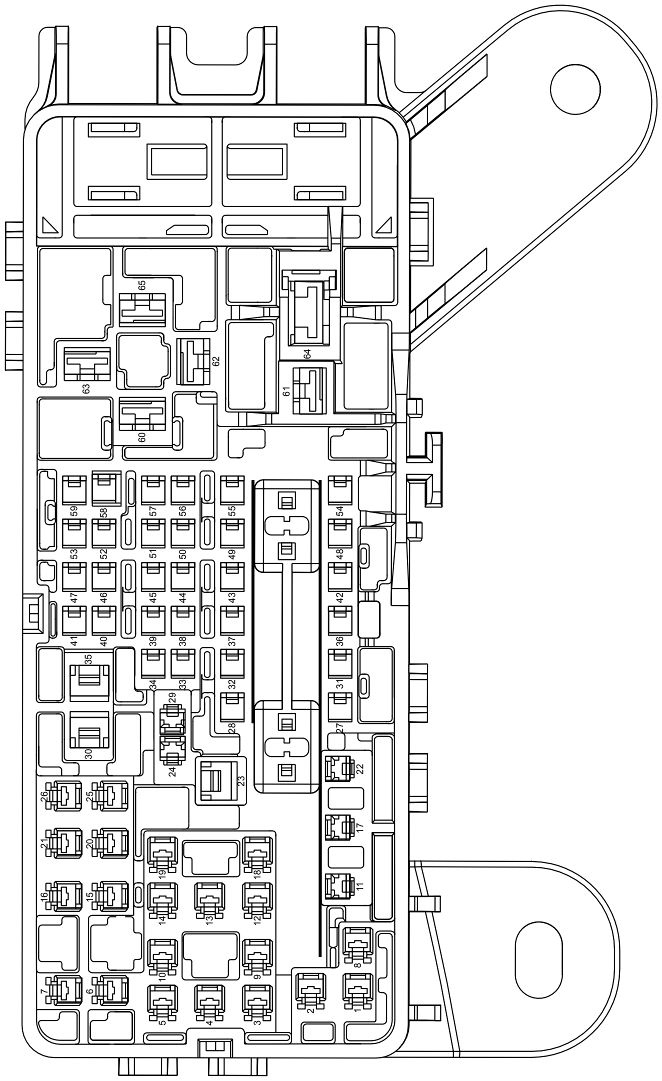
X53A Fuse Block - Rear Body Usage

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
2	-	F2RA	15A	K29R Seat Heating Control Module - Rear (KA6)
3	-	F3RA	15A	K29R Seat Heating Control Module - Rear (KA6)
4	-	F4RA	15A	E17D Outside Rearview Mirror Glass - Driver (DL3 or DL8 or DR4), E17P Outside Rearview Mirror Glass - Passenger (DL3 or DL8 or DR4)
5	-	F5RA	15A	Not Used
6	-	F6RA	-	Not Used
7	-	F7RA	10A	KR95A Liftgate Unlatch Relay (TB4)
8	-	F8RA	-	Not Used
9	-	F9RA	10A	B159L Glass Breakage Sensor - Left (UTV)
10	-	F10RA		Not Used

10	-	F10RA	-	Not Used
11	-	F11RA	10A	KR162 Liftgate Window Unlatch Relay
12	-	F12RA	-	Not Used
13	-	F13RA	-	Not Used
14	-	F14RA	10A	K39 Liftgate Control Module (TB5)
15	-	F15RA	20A	M45 Rear Wiper Motor
16	-	F16RA	-	Not Used
17	-	F17RA	-	Not Used
18	-	F18RA	30A	K8A Blower Motor Control Module - Auxiliary
19	-	F19RA	-	Not Used
20	-	F20RA	-	Not Used
21	-	F21RA	20A	Folding Seat Motor - Left 2nd Row (ATN or ATT), Folding Seat Motor - Right 2nd Row (ATN or ATT)
22	-	F22RA	10A	KR57 Rear Fog Lamp Relay (T79)
23	-	F23RA	-	Not Used
24	-	F24RA	30A	F9RA (UTV), E18 Rear Defogger Grid
25	-	F25RA	30A	K39 Liftgate Control Module (TB5)
26	-	F26RA	-	Not Used
28	-	F28RA	30A	K169 Folding Seat Control Module - 3rd Row (AS8)
30	-	F30RA	20A	X80RL Accessory Power Receptacle - Rear Compartment Left, X80RR Accessory Power Receptacle - Rear Compartment Right
1	—	KR5 Rear Defogger Relay	—	F5RA, F9RA, F24RA
27	—	KR95A Liftgate Unlatch Relay	—	M30 Liftgate Latch
29	—	—	—	Not Used
31	—	—	—	Not Used
32	—	KR57 Rear Fog Lamp Relay	—	E29LR Fog Lamp — Left Rear (T79), E29RR Fog Lamp — Right Rear (T79)
33	—	KR162 Liftgate Window Unlatch Relay	—	M33 Liftgate Window Latch Assembly

X53A Fuse Block - Rear Body (Wire Entry)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Connector Part Information

Harness Type: Body

OEM Connector: 13940427

Service Connector: Pending

Description: 0 0 Wire Entry Fuse Block

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available
II	13575719	J-35616-4A (PU)	J-38125-553	12110844	4	C	A
III	13579978	J-35616-43 (RD)	J-38125-553	15410292	23	G/F	G
IV	13579923	J-35616-4A (PU)	J-38125-553	12110842	4	A	B
V	13579978	J-35616-43 (RD)	J-38125-553	15410292	23	G/F	G/F

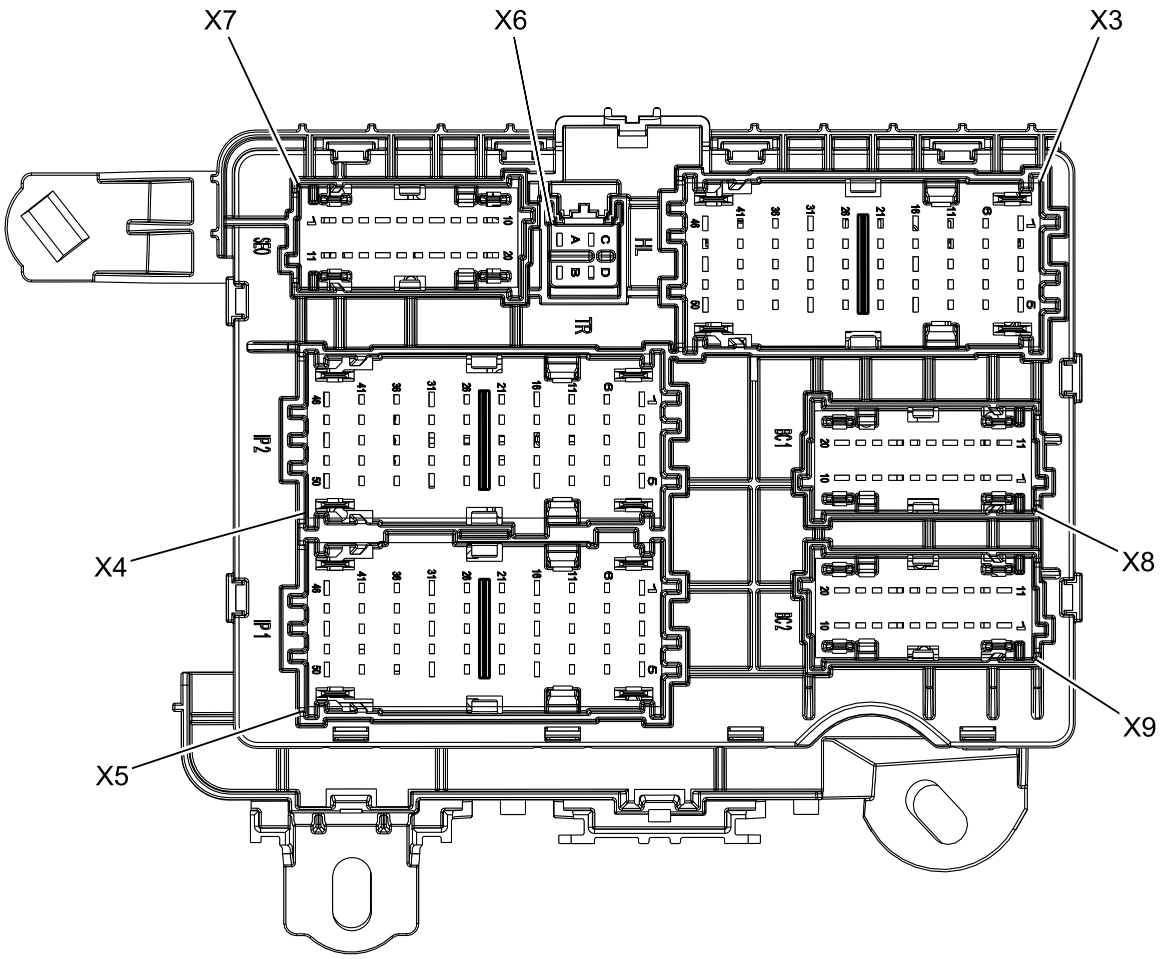
VI	13575719	J-35616-4A (PU)	J-38125-553	12110844	4	E	A
VII	13579958	J-35616-4A (PU)	J-38125-11A	15324340	19	F	G
VIII	13575288	J-35616-42 (RD)	J-38125-11A	7116-4120-02	9	E	A
IX	Pending	J-35616-42 (RD)	J-38125-11A	7116-4122-02	10	D	G
X	Pending	J-35616-44 (YE)	J-38125-558	12110127	19	Not Available	Not Available

X53A Fuse Block - Rear Body (Wire Entry)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-5	-	-	-	Not Occupied	-	-
6	0.35	GY/YE	6188	Lift Glass/Trunk Motor Release Control	I	-
7	0.5	RD/YE	4340	Battery Positive Voltage	I	-
8-10	-	-	-	Not Occupied	-	-
11	1.5	RD/D-BU	6040	Battery Positive Voltage	I	-
12-14	-	-	-	Not Occupied	-	-
15	0.5	D-BU/YE	6795	Lift Glass/Trunk Motor Release Control 2	I	-
16	0.5	BK	1150	Ground	I	-
17	2.5	RD/D-BU	1240	Battery Positive Voltage	I	-
18-21	-	-	-	Not Occupied	-	-
22	3	RD/GY	7040	Battery Positive Voltage	I	-
23-26	-	-	-	Not Occupied	-	-
27	0.75	RD/D-BU	1240	Battery Positive Voltage	II	-
28-29	-	-	-	Not Occupied	-	-
30	4	BN/VT	938		III	-
31	2.5	RD/GY	1740	Battery Positive Voltage	IV	-
32-34	-	-	-	Not Occupied	-	-
35	2.5	BN/VT	293	Rear Defog Element Supply Voltage	V	-
36	0.5	RD/D-BU	840	Battery Positive Voltage	VI	-
37	0.75	RD/YE	3040	Battery Positive Voltage	II	-
38-42	-	-	-	Not Occupied	-	-
43	0.5	RD/YE	4340	Battery Positive Voltage	VI	-
44-51	-	-	-	Not Occupied	-	-
52	2.5	BN/VT	293	Rear Defog Element Supply Voltage	IV	-
53	0.5	BN/VT	293	Rear Defog Element Supply Voltage	I	-

53	0.5	BN/VT	293	Rear Defog Element Supply Voltage	I	-
54	0.75	RD/L-GN	5140	Battery Positive Voltage	II	-
55	0.75	RD/L-GN	6140	Battery Positive Voltage	II	-
56-57	-	-	-	Not Occupied	-	-
58	4	BN/VT	938		VII	-
59	0.5	BN/YE	2267	Mirror Heating Element Supply Voltage	VI	-
60	0.5	BK	1150	Ground	VIII	-
61	4	RD/D-BU	42	Battery Positive Voltage	IX	-
62	4	BN/VT	938		IX	-
63	4	RD/D-BU	42	Battery Positive Voltage	IX	-
64	6	RD/WH	942		X	-
65	0.5	BN/VT	193	Rear Defog Relay Control	VIII	-

X61A Junction Block - Instrument Panel Top View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BC1
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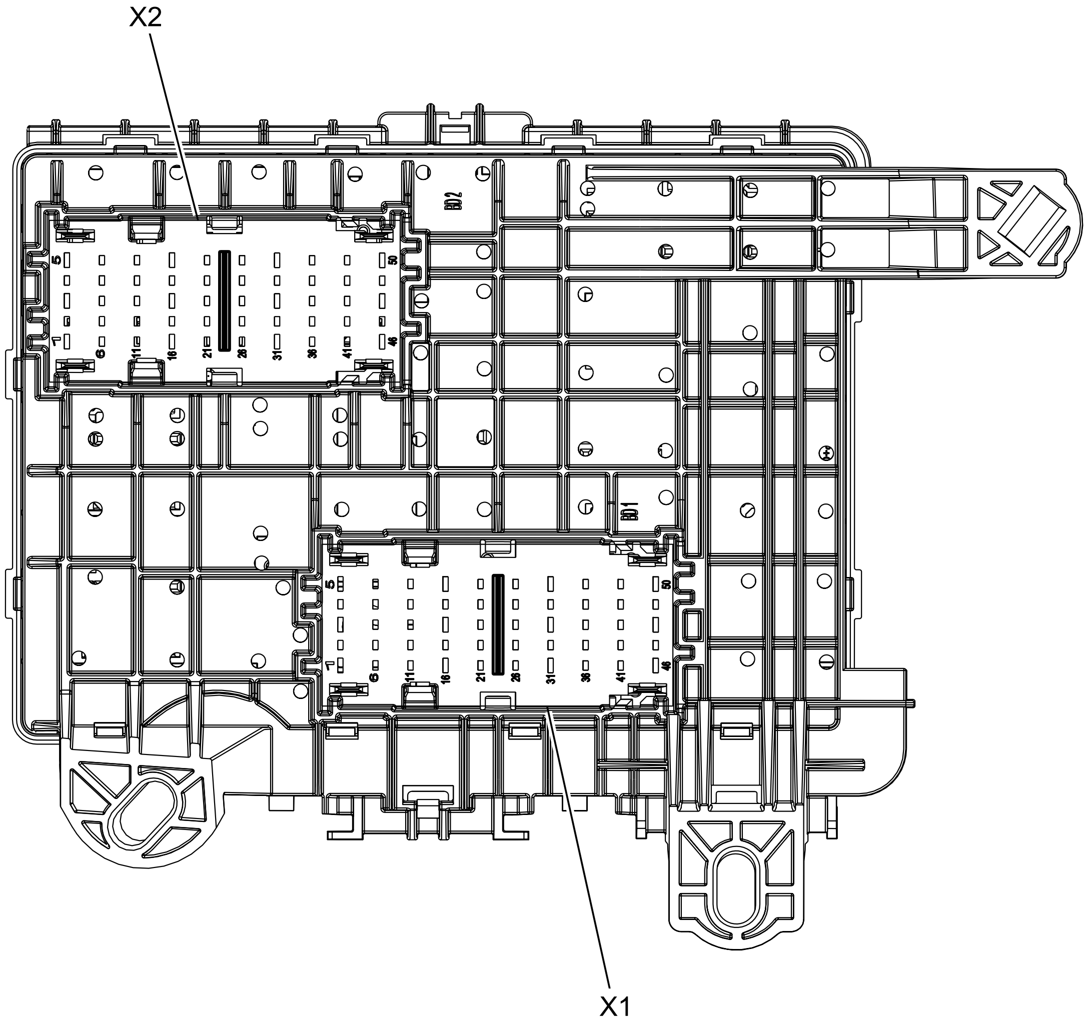
X4
IP1
BC2
X9
X5

X61A Junction Block - Instrument Panel Bottom View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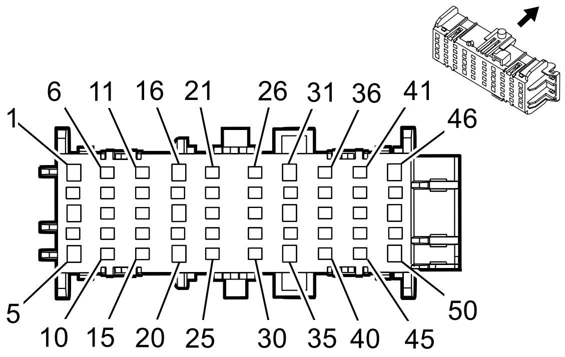
X61A Junction Block - Instrument Panel X1



Connector Part Information

Harness Type: Body

OEM Connector: 15501741

Service Connector: 19301798

Description: 50-Way F 1.5, 2.8 OCS Series (BK)

Terminal Part Information

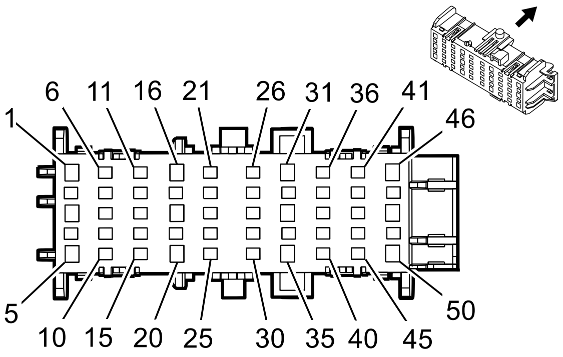
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X61A Junction Block - Instrument Panel X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.5	GY/BK	1570	Front Axle Actuator Control	I	-
3-10	-	-	-	Not Occupied	-	-
11	0.35	GY/L-GN	2555	Rear Park Assist Disable Signal	I	-
12-17	-	-	-	Not Occupied	-	-
18	0.5	D-BU/YE	6105	High Speed GMLAN Serial Data (+) (2)	I	-
19	0.5	D-BU/YE	6105	High Speed GMLAN Serial Data (+) (2)	I	-
20	0.5	WH	6106	High Speed GMLAN Serial Data (-) (2)	I	-
21	-	-	-	Not Occupied	-	-
22	0.35	VT	185	Low Washer Fluid Indicator Control	I	-
23	0.35	BN/YE	780	Driver Door Lock Switch Lock Signal	I	-
24	-	-	-	Not Occupied	-	-
25	0.35	GY	5697	Child Lockout Indicator	I	-
26-27	-	-	-	Not Occupied	-	-
28	0.35	BN/WH	781	Driver Door Lock Switch Unlock Signal	I	-

29-31	-	-	-	Not Occupied	-	-
32	0.5	WH	6106	High Speed GMLAN Serial Data (-) (2)	I	-
33	0.5	VT/BN	300	Run Ignition 3 Voltage	I	-
34-35	-	-	-	Not Occupied	-	-
36	0.35	WH/GY	5285	Adjustable Pedal Switch Rearward Signal	I	-
37-38	-	-	-	Not Occupied	-	-
39	0.75	D-BU/VT	1134	Park Brake Switch Signal	I	-
40	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	-
41	-	-	-	Not Occupied	-	-
42	0.35	L-GN/GY	5286	Adjustable Pedal Switch Forward Signal	I	-
43	0.35	L-GN/VT	1601	Steering Column Lock Signal	I	-
44	0.5	WH/D-BU	3691	Trailer Brake Apply Signal	I	-
45	0.35	L-GN/BN	5852	Rear Park Assist LED Disable Signal	I	-
46	0.5	VT/WH	1939	Run/Crank Ignition 1 Voltage	I	-
47	0.5	WH	6816	Indicator Dimming Control	I	-
48	-	-	-	Not Occupied	-	-
49	0.5	YE/WH	816	Brake Transmission Shift Interlock Solenoid Control	I	-
50	2.5	BK	2550	Ground	I	-

X61A Junction Block - Instrument Panel X2



Connector Part Information

Harness Type: Body

OEM Connector: 15501742

Service Connector: Pending

Description: 50-Way F 1.5, 2.8 OCS Series (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available
II	13575543	J-35616-35 (VT)	J-38125-12A	1326030-8	17	B	F

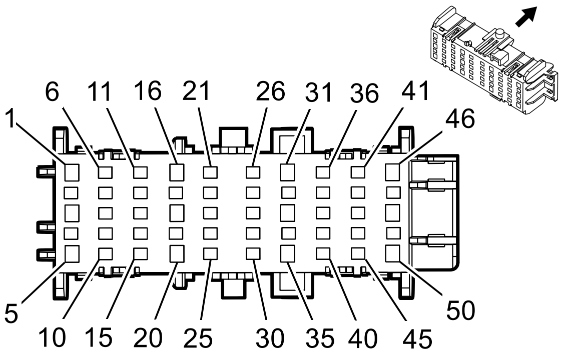
X61A Junction Block - Instrument Panel X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-2	-	-	-	Not Occupied	-	-
3	4	RD/GY	1342	Battery Positive Voltage	II	-
4	0.35	D-BU	2307	Passenger Air Bag On Indicator Control	I	-
5	0.35	RD/L-GN	3140	Battery Positive Voltage	I	-
6	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	I	-
7	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	I	-
8	0.35	WH/RD	6207	Memory Sensor High Reference	I	-
9	0.35	BK/YE	1691	Automatic Day/Night Mirror Low Reference	I	-
10	0.35	YE/WH	1690	Automatic Day/Night Mirror Signal	I	-
11	0.35	D-BU	5952	Adjustable Pedal Position Sensor Brake Signal	I	-
12	1.5	YE	5129	Adjustable Pedal Actuator Rearward Control	I	-
13-14	-	-	-	Not Occupied	-	-
15	0.35	L-GN/WH	24	Backup Lamp Supply Voltage	I	-
16	2.5	YE/BN	1569	Transfer Case Lock Solenoid Control	I	-

17	-	-	-	Not Occupied	-	-
18	4	BK	550	Ground	II	-
19	0.35	VT/WH	5234	Passenger Seat Belt Indicator	I	-
20	0.35	L-GN	6112	Power Lift Gate On/Off Switch Signal	I	-
21	1.5	L-GN/VT	5130	Adjustable Pedal Actuator Forward Control	I	-
22	0.35	BK/GY	6206	Memory Sensor Low Reference	I	-
23	0.5	WH/BN	6815	Inadvertent Power Control	I	-
24	0.35	L-GN	2308	Passenger Air Bag Off Indicator Control	I	-
25	-	-	-	Not Occupied	-	-
26	0.35	D-BU/GY	7473	Incremental Encoder Impulse Signal	I	-
27	0.35	VT	7476	Incremental Encoder Sensor Return	I	-
28	-	-	-	Not Occupied	-	-
29	0.5	GY	157	Interior Lamp Control	I	-
30	0.35	GY	156	Courtesy Lamp Switch Signal	I	-
31	4	YE/VT	1553	Transfer Case Motor Counter Clockwise Control	II	-
32	0.35	YE	7474	Incremental Encoder Direction Signal	I	-
33-34	-	-	-	Not Occupied	-	-
35	2.5	RD/L-GN	242	Battery Positive Voltage	I	-
36	0.35	WH/L-GN	7475	Incremental Encoder Sensor (8V) Supply	I	-
37	0.5	YE/WH	1695	Four Wheel Drive Wheel Lock Indicator	I	-
38	0.35	VT/YE	5985	Accessory Wakeup Serial Data	I	-
39	-	-	-	Not Occupied	-	-
40	0.35	GY/BK	6113	Rear Lift Gate Open/Close Switch Signal	I	-
41-42	-	-	-	Not Occupied	-	-
43	0.35	GY/WH	3153	Lane Departure Warning Disable Switch Signal	I	-
44	0.5	WH/D-BU	3691	Trailer Brake Apply Signal	I	-
45	-	-	-	Not Occupied	-	-
46	4	YE/GY	1552	Transfer Case Motor Clockwise Control	II	-
47	0.5	L-GN/GY	817	Vehicle Speed Signal	I	-
48	2.5	D-BU	47	Trailer Auxiliary Supply Voltage	I	-
49	0.35	WH	3152	Lane Departure Warning Indicator Control	I	-

				Lane Departure Warning Indicator Control		
50	0.35	VT/YE	43	Accessory Voltage	I	-

X61A Junction Block - Instrument Panel X3



Connector Part Information

Harness Type: Overhead Console

OEM Connector: 15501745

Service Connector: Pending

Description: 50-Way F 1.5, 2.8 OCS Series (BU)

Terminal Part Information

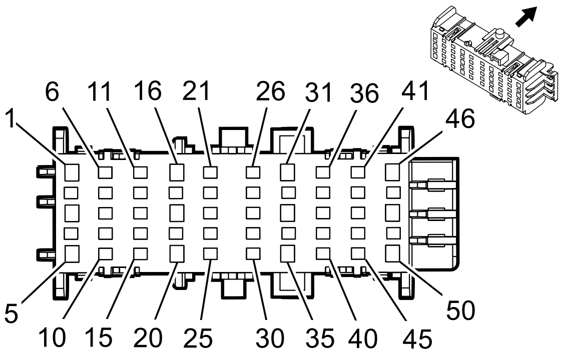
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X61A Junction Block - Instrument Panel X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-2	-	-	-	Not Occupied	-	-
3	0.35 0.5	RD/L-GN RD/L-GN	3140 3140	Battery Positive Voltage Battery Positive Voltage	I	-
4	0.35	D-BU	2307	Passenger Air Bag On Indicator Control	I	-
5-7	-	-	-	Not Occupied	-	-
8	0.35	YE/WH	1690	Automatic Day/Night Mirror Signal	I	-
9	0.35	BK/YE	1691	Automatic Day/Night Mirror Low Reference	I	-
10-12	-	-	-	Not Occupied	-	-
13	0.5	L-GN/WH	24	Backup Lamp Supply Voltage	I	-
14-16	-	-	-	Not Occupied	-	-
17	0.35	L-GN/BK	2515	Keypad Supply Voltage	I	-
18	0.35	L-GN	6112	Power Lift Gate On/Off Switch Signal	I	-
19	0.35	VT/WH	5234	Passenger Seat Belt Indicator	I	-
20	-	-	-	Not Occupied	-	-
21	0.35	L-GN/WH	2514	Keypad Signal	I	-
22	0.35	YE/VT	2516	Keypad Green LED	I	-

22	0.35	YE/VT	2516	Keypad Green LED	I	-
23	-	-	-	Not Occupied	-	-
24	0.35	L-GN	2308	Passenger Air Bag Off Indicator Control	I	-
25	0.5	WH/BN	6815	Inadvertent Power Control	I	-
26	-	-	-	Not Occupied	-	-
27	0.5	YE	6817	LED Backlight Dimming Control	I	-
28	0.35	GY	156	Courtesy Lamp Switch Signal	I	-
29	0.5	GY	157	Interior Lamp Control	I	-
30-35	-	-	-	Not Occupied	-	-
36	0.35	BN/WH	2517	Keypad Red LED	I	-
37	-	-	-	Not Occupied	-	-
38	0.35	GY/BK	6113	Rear Lift Gate Open/Close Switch Signal	I	-
39-40	-	-	-	Not Occupied	-	-
41	0.35	GY/L-GN	328	Interior Lamp Defeat Switch Signal	I	-
42	0.35	VT/L-GN	7558	LED Ambient Lighting Control 2	I	-
43-44	-	-	-	Not Occupied	-	-
45	0.35	GY/WH	3153	Lane Departure Warning Disable Switch Signal	I	-
46	2.5	BK	1050	Ground	I	-
47	0.35	L-GN	5060	Low Speed GMLAN Serial Data	I	-
48	-	-	-	Not Occupied	-	-
49	0.35	WH	3152	Lane Departure Warning Indicator Control	I	-
50	-	-	-	Not Occupied	-	-

X61A Junction Block - Instrument Panel X4



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15501744

Service Connector: Pending

Description: 50-Way F 1.5, 2.8 OCS Series (GN)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

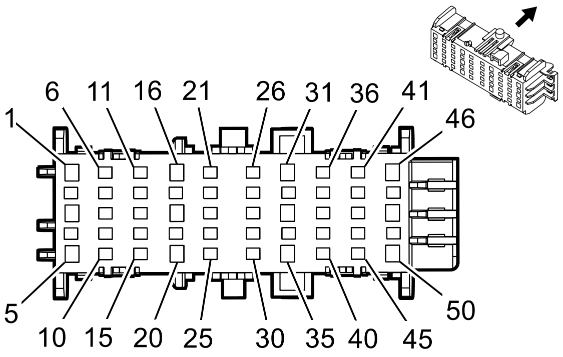
X61A Junction Block - Instrument Panel X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.35	YE/VT	2516	Keypad Green LED	I	-
3	0.35	BK/L-GN	552	Sensor Low Reference	I	-
4	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	I	-
5	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	I	-
6	0.5	YE	6817	LED Backlight Dimming Control	I	-
7	0.35	L-GN/WH	2514	Keypad Signal	I	-
8	0.35	GY/RD	598	5 Volt Reference	I	-
9	0.35	WH/L-GN	526	Stop Lamp Switch Signal	I	-
10	0.35	D-BU/YE	1693	Four Wheel Drive Switch Signal	I	-
11	0.35	GY/WH	3153	Lane Departure Warning Disable Switch Signal	I	-
12-13	-	-	-	Not Occupied	-	-
14	0.35	BN	1560	Neutral Indicator Control	I	-
15	0.35	GY/RD	6029	Four Wheel Drive Mode Switch 5 Volt Reference	I	-
16	2.5	BK	1050	Ground	I	-

17-18	-	-	-	Not Occupied	-	-
19	0.35	L-GN/BK	2515	Keypad Supply Voltage	I	-
20	-	-	-	Not Occupied	-	-
21	0.5	VT/L-GN	7558	LED Ambient Lighting Control 2	I	-
22	0.35	BN/WH	2517	Keypad Red LED	I	-
23	0.35	BN/BK	1566	4 HI Indicator Control	I	-
24	0.35	VT/WH	1565	4 LO Indicator Control	I	-
25	0.35	VT/L-GN	1739	Run/Crank Ignition 1 Voltage	I	-
26	0.35	WH	3152	Lane Departure Warning Indicator Control	I	-
27	0.35	GY/L-GN	328	Interior Lamp Defeat Switch Signal	I	-
28-29	-	-	-	Not Occupied	-	-
30	0.35	GY/L-GN	1561	AWD Indicator Control	I	-
31	1.5	RD/YE	2340	Battery Positive Voltage	I	-
32	0.5	BK/WH	1851	Signal Ground	I	-
33	0.75 0.35	BK/WH BK/WH	1851 1851	Signal Ground Signal Ground	I	-
34	0.35	BK/WH	1851	Signal Ground	I	-
35	2.5	BK/WH	1851	Signal Ground	I	-
36	-	-	-	Not Occupied	-	-
37	0.35	BK/WH	1851	Signal Ground	I	-
38	0.5	BK/WH	1851	Signal Ground	I	-
39	0.35	BK/WH	1851	Signal Ground	I	-
40	0.35	L-GN/BK	1563	2 HI Indicator Control	I	-
41	0.35	BK/WH	1851	Signal Ground	I	-
42	0.35	BK/WH	1851	Signal Ground	I	-
43	0.35	BK/WH	1851	Signal Ground	I	-
44	0.35	BK	2550	Ground	I	-
45	0.35	BK	2550	Ground	I	-
46	0.75	BK	2550	Ground	I	-
47	0.35	BK	2550	Ground	I	-
48	0.75 0.5	BK BK	2550 2550	Ground Ground	I	-

	0.5	BK	2550	Ground		
49	0.35	BK	2550	Ground	I	-
50	0.75	BK	2550	Ground	I	-

X61A Junction Block - Instrument Panel X5



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15501743

Service Connector: Pending

Description: 50-Way F 1.5, 2.8 OCS Series (NA)

Terminal Part Information

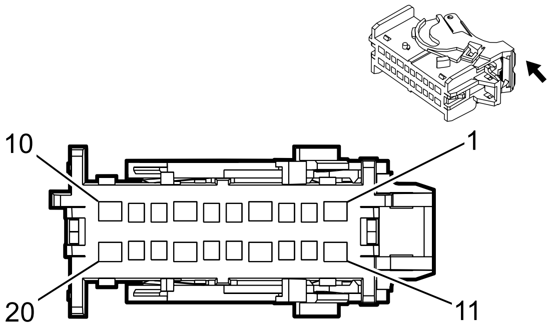
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X61A Junction Block - Instrument Panel X5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH	6106	High Speed GMLAN Serial Data (-) (2)	I	-
2	0.5	D-BU/YE	6105	High Speed GMLAN Serial Data (+) (2)	I	-
3	0.5	D-BU/YE	6105	High Speed GMLAN Serial Data (+) (2)	I	-
4-5	-	-	-	Not Occupied	-	-
6	0.35	GY	5697	Child Lockout Indicator	I	-
7	0.5	BN	7634	Integrated Trailer Brake Contoller Redundant Manual Apply Signal	I	-
8	0.35	BN/YE	780	Driver Door Lock Switch Lock Signal	I	-
9	0.35	VT	185	Low Washer Fluid Indicator Control	I	-
10	0.5	D-BU/L-GN	961		I	-
11	0.5	D-BU/L-GN	963		I	-
12	0.5	YE	7635	Integrated Trailer Brake Controller Manual Apply Signal	I	-
13	0.35	BN/WH	781	Driver Door Lock Switch Unlock Signal	I	-
14	0.5	BK/BN	7631	Integrated Trailer Brake Controller Switch Low Reference	I	-
15	0.5	D-BU/RD	7632	Integrated Trailer Brake Controller Switch 5 Volt Reference	I	-
16	-	-	-	Not Occupied	-	-

17	0.5	D-BU/L-GN	962		I	-
18	0.5	VT/BN	300	Run Ignition 3 Voltage	I	-
19	0.5	WH	6106	High Speed GMLAN Serial Data (-) (2)	I	-
20-21	-	-	-	Not Occupied	-	-
22	0.5	D-BU/VT	1134	Park Brake Switch Signal	I	-
23	0.5	D-BU/L-GN	964		I	-
24	-	-	-	Not Occupied	-	-
25	0.35	WH/GY	5285	Adjustable Pedal Switch Rearward Signal	I	-
26	0.35	L-GN/BN	5852	Rear Park Assist LED Disable Signal	I	-
27	0.5	WH/D-BU	3691	Trailer Brake Apply Signal	I	-
28	0.35	L-GN/VT	1601	Steering Column Lock Signal	I	-
29	0.35	L-GN/GY	5286	Adjustable Pedal Switch Forward Signal	I	-
30	0.5	L-GN/BK	7633	Integrated Trailer Brake Controller User Gain Signal	I	-
31	0.35	BK	2550	Ground	I	-
32	0.5	YE/WH	816	Brake Transmission Shift Interlock Solenoid Control	I	-
33	-	-	-	Not Occupied	-	-
34	0.5	WH	6816	Indicator Dimming Control	I	-
35-36	-	-	-	Not Occupied	-	-
37	0.35	WH	6816	Indicator Dimming Control	I	-
38	0.35	WH	6816	Indicator Dimming Control	I	-
39	0.5	WH	6816	Indicator Dimming Control	I	-
40-44	-	-	-	Not Occupied	-	-
45	0.35	GY/L-GN	2555	Rear Park Assist Disable Signal	I	-
46-50	-	-	-	Not Occupied	-	-

X61A Junction Block - Instrument Panel X7



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13924036

Service Connector: Pending

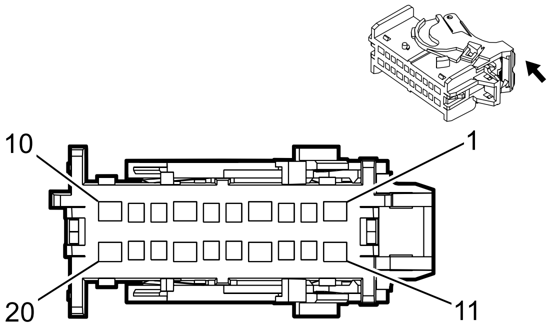
Description: 20-Way F 1.5, 2.8 Series (NA)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X61A Junction Block - Instrument Panel X7

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	RD/L-GN	968		I	-
2-3	-	-	-	Not Occupied	-	-
4	2.5	RD/L-GN	967		I	-
5-7	-	-	-	Not Occupied	-	-
8	0.5	VT/YE	43	Accessory Voltage	I	-
9	-	-	-	Not Occupied	-	-
10	0.5	BK	1050	Ground	I	-
11	0.5	VT/WH	1939	Run/Crank Ignition 1 Voltage	I	-
12-13	-	-	-	Not Occupied	-	-
14	2.5	RD/L-GN	966		I	-
15-18	-	-	-	Not Occupied	-	-
19	0.5	L-GN/GY	817	Vehicle Speed Signal	I	-
20	2.5	RD/L-GN	965		I	-



Connector Part Information

Harness Type: Brake Clutch Jumper

OEM Connector: 13924034

Service Connector: Service by Harness - See Part Catalog

Description: 20-Way F 1.5, 2.8 Series (BK)

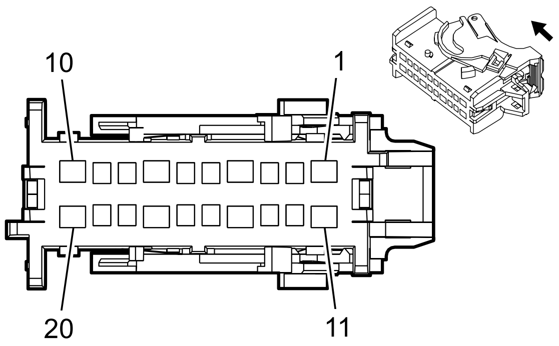
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X61A Junction Block - Instrument Panel X8

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-7	-	-	-	Not Occupied	-	-
8	0.5	WH/L-GN	526	Stop Lamp Switch Signal	I	-
9	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	I	-
10	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	I	-
11	-	-	-	Not Occupied	-	-
12	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	I	-
13	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	I	-
14	0.5	WH/RD	6207	Memory Sensor High Reference	I	-
15	0.5	D-BU	5952	Adjustable Pedal Position Sensor Brake Signal	I	-
16	1.5	YE	5129	Adjustable Pedal Actuator Rearward Control	I	-
17	0.5	BK/GY	6206	Memory Sensor Low Reference	I	-
18	1.5	L-GN/VT	5130	Adjustable Pedal Actuator Forward Control	I	-
19	0.5	BK/L-GN	552	Sensor Low Reference	I	-
20	0.5	GY/RD	598	5 Volt Reference	I	-

X61A Junction Block - Instrument Panel X9



Connector Part Information

Harness Type: Brake Clutch Jumper

OEM Connector: 13924035

Service Connector: Service by Harness - See Part Catalog

Description: 20-Way F 1.5, 2.8 OCS Series (GY)

Terminal Part Information

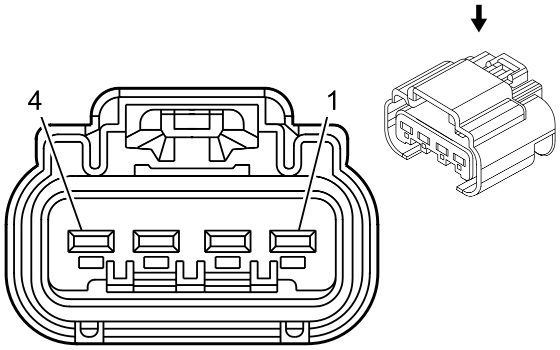
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available
II	13575543	J-35616-35 (VT)	J-38125-12A	1326030-8	17	B	F

X61A Junction Block - Instrument Panel X9

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	YE/BN	1569	Transfer Case Lock Solenoid Control	I	-
2	0.35	D-BU/YE	1693	Four Wheel Drive Switch Signal	I	-
3	0.35	GY/RD	6029	Four Wheel Drive Mode Switch 5 Volt Reference	I	-
4	0.35	BN/BK	1566	4 HI Indicator Control	I	-
5	0.35	VT/WH	1565	4 LO Indicator Control	I	-
6	0.35	VT/L-GN	1739	Run/Crank Ignition 1 Voltage	I	-
7	0.35	VT/YE	5985	Accessory Wakeup Serial Data	I	-
8	0.35	L-GN/BK	1563	2 HI Indicator Control	I	-
9	0.35	GY/L-GN	1561	AWD Indicator Control	I	-
10	0.5	GY/BK	1570	Front Axle Actuator Control	I	-
11	3	RD/GY	1342	Battery Positive Voltage	I	-
12	0.35	BN	1560	Neutral Indicator Control	I	-
13	0.35	VT	7476	Incremental Encoder Sensor Return	I	-
14	3	BK	550	Ground	I	-

15	0.35	D-BU/GY	7473	Incremental Encoder Impulse Signal	I	-
16	0.35	YE	7474	Incremental Encoder Direction Signal	I	-
17	4	YE/VT	1553	Transfer Case Motor Counter Clockwise Control	II	-
18	0.35	WH/L-GN	7475	Incremental Encoder Sensor (8V) Supply	I	-
19	0.5	YE/WH	1695	Four Wheel Drive Wheel Lock Indicator	I	-
20	4	YE/GY	1552	Transfer Case Motor Clockwise Control	II	-

A7 Fuel Pump and Level Sensor Assembly



Connector Part Information

Harness Type: Chassis

OEM Connector: 13527865

Service Connector: 13587174

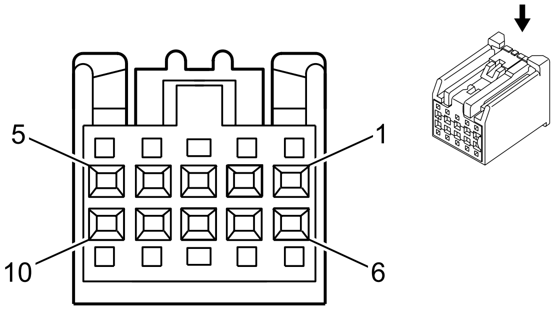
Description: 4-Way F 280 GT Series, Sealed (NA)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-4A (PU)	J-38125-553	15392777	23	D	5
II	13578915	J-35616-4A (PU)	J-38125-553	15304719	19	E	5

A7 Fuel Pump and Level Sensor Assembly

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	GY	120	Fuel Pump Supply Voltage	I	-
2	1.5	BK/GN	1580	Fuel Pump Low Reference	I	-
3	0.5	BK/L-GN	6281	Fuel Level Sensor Low Reference	II	-
4	0.5	D-BU/VT	1589	Primary Fuel Level Sensor Signal	II	-



Connector Part Information

Harness Type: Headliner

OEM Connector: 13815336

Service Connector: 13577390

Description: 10-Way F 0.64 Kaizen Series (BK)

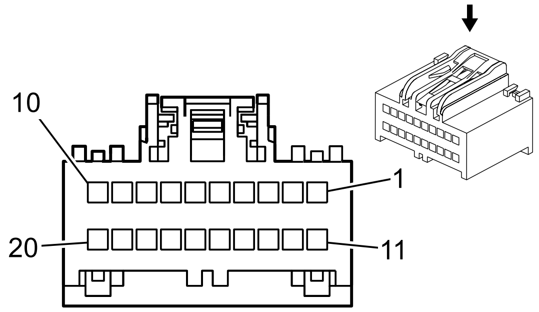
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

A10 Inside Rearview Mirror

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5 0.5	L-GN/WH L-GN/RD	24 24	Backup Lamp Supply Voltage Backup Lamp Supply Voltage	I	-
2	0.35	VT/L-GN	1739	Run/Crank Ignition 1 Voltage	I	-
3	0.35 0.35	L-GN/WH L-GN/D-BU	2514 2514	Keypad Signal Keypad Signal	I	-
4	0.35	L-GN/BK	2515	Keypad Supply Voltage	I	-
5	0.5	BK	1050	Ground	I	-
6	0.35 0.35	YE/VT YE/BN	2516 2516	Keypad Green LED Keypad Green LED	I	-
7	0.35	BN/WH	2517	Keypad Red LED	I	-
8	0.35	BK/YE	1691	Automatic Day/Night Mirror Low Reference	I	-
9	0.35	YE/WH	1690	Automatic Day/Night Mirror Signal	I	-
10	-	-	-	Not Occupied	-	-

A11 Radio X1



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15491304

Service Connector: 15126710

Description: 20-Way F USCAR 64 Series (GY)

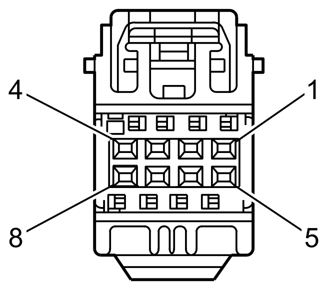
Terminal Part Information

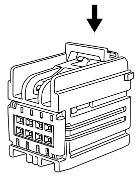
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
II	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

A11 Radio X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-3	-	-	-	Not Occupied	-	-
4	0.35	WH/D-BU	6973	Camera Signal #2	II	-
5	0.35	GY/YE	6972	Camera Signal #2 +	I	-
6	0.5	Bare	5842	Auxiliary Audio Screen (2)	I	-
7	0.35	D-BU	2060	Auxiliary Detection Signal	I	-
8	0.35	VT	5843	Auxiliary Audio Common Signal	I	-
9	0.35	GY	5839	Left Auxiliary Audio Signal (2)	I	-
10	0.35	L-GN	5841	Right Auxiliary Audio Signal (2)	I	-
11-12	-	-	-	Not Occupied	-	-
13	0.5	L-GN/D-BU	7532	Linear Interconnect Network Bus 10	II	-
14	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	-
15-18	-	-	-	Not Occupied	-	-
19	0.35	BK/YE	659	Cellular Telephone Voice Low Reference	I	-
20	0.35	YE	658	Cellular Telephone Voice Signal	I	-

A11 Radio X2





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13551679

Service Connector: 19115653

Description: 8-Way F YESC Kaizen Series (L-GY)

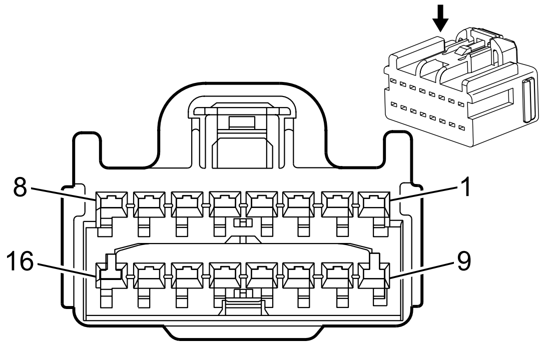
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
II	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

A11 Radio X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/L-GN	3997	MOST Serial Data (-)	I	-
2	0.5	GY/VT	3998	MOST Serial Data (+)	I	-
3	0.5	WH/L-GN	3997	MOST Serial Data (-)	II	-
4	0.5	GY/VT	3998	MOST Serial Data (+)	II	-
5-6	-	-	-	Not Occupied	-	-
7	0.35	WH/VT	3999	MOST Control	II	-
8	-	-	-	Not Occupied	-	-

A11 Radio X3



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 10847013

Service Connector: 89047090

Description: 16-Way F 1.5 Kaizen Series (GN)

Terminal Part Information

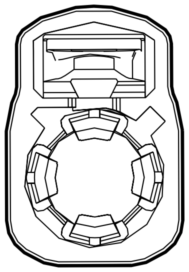
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	13575808	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	A/E	A/C
III	13575808	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	E	2
IV	13575708	J-35616-2A (GY)	J-38125-11A	7116-4101-08	9	E	A
V	13578891	J-35616-2A (GY)	J-38125-11A	7116-4100-08	9	E	C

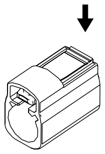
A11 Radio X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	D-BU	201	Left Front Speaker (+) (1)	I	-
2	0.75	YE	200	Right Front Speaker (+) (1)	I	-
3	0.5 0.75	L-GN L-GN	199 199	Left Rear Speaker (+) Left Rear Speaker (+)	I	-
4	0.5 0.75	WH WH	46 46	Right Rear Speaker (+) Right Rear Speaker (+)	I	-
5-7	-	-	-	Not Occupied	-	-
8	0.75	RD/VT	340	Battery Positive Voltage	I	-
9	0.75	BN/D-BU	118	Left Front Speaker Signal (-) (1)	I	-
10	0.75	YE/BK	117	Right Front Speaker Signal (-) (1)	I	-
11	0.5 0.75	L-GN/BK L-GN/BK	116 116	Left Rear Speaker Signal (-) Left Rear Speaker Signal (-)	I	-

12	0.5 0.75	D-BU/BK D-BU/BK	115 115	Right Rear Speaker Signal (-) Right Rear Speaker Signal (-)	I	-
13-15	-	-	-	Not Occupied	-	-
16	0.75	BK	2550	Ground	I	-

A11 Radio X4





Connector Part Information

Harness Type: Instrument Panel COAX

OEM Connector: 12784257

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 1-Way F Coax (BK)

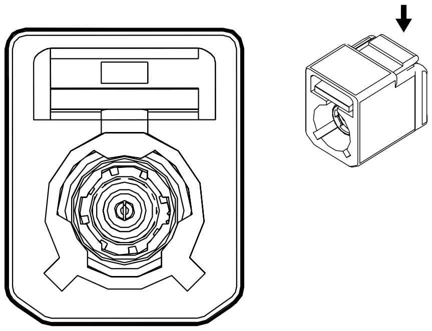
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A11 Radio X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	COAX	—	Antenna RF Signal	I	—

A11 Radio X6 (U2M)



Connector Part Information

Harness Type: Instrument Panel COAX

OEM Connector: 13591282

Service Connector: Service by Cable Assembly — See Parts Catalog

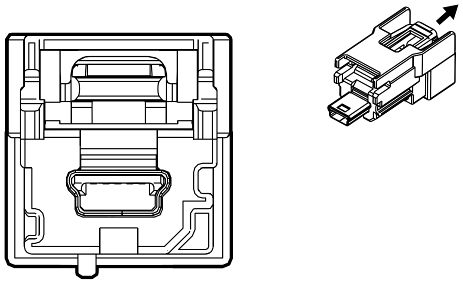
Description: 1-Way F Coax Type (CU)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A11 Radio X6 (U2M)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	COAX	—	Antenna XM Signal	I	—



Connector Part Information

Harness Type: Instrument Panel LVDS

OEM Connector: 13581338

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 5-Way M 2.0 Mini B USB Type (BN)

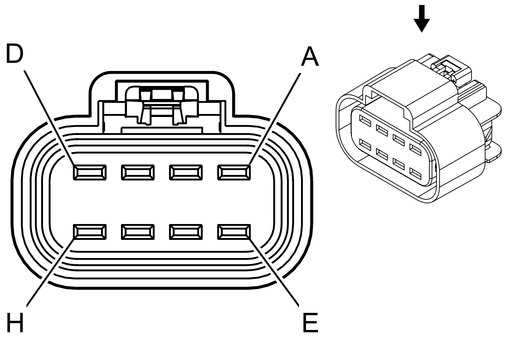
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A11 Radio X7 (IO3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	LVDS	—	Navigation Display Signal	I	—

A16 Transfer Case Motor



Connector Part Information

Harness Type: Engine

OEM Connector: 13669205

Service Connector: 19300464

Description: 8-Way F 280 GT 5.8 Series, Sealed (BK)

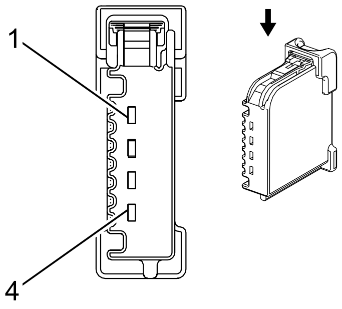
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-4A (PU)	J-38125-553	Not Available	Not Available	Not Available	Not Available

A16 Transfer Case Motor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	3 3	YE/GY OG	1552 1552	Transfer Case Motor Clockwise Control Transfer Case Motor Clockwise Control	I	-
B	3	RD/GY	1342	Battery Positive Voltage	I	-
C	2.5	YE/BN	1569	Transfer Case Lock Solenoid Control	I	-
D	3	YE/VT	1553	Transfer Case Motor Counter Clockwise Control	I	-
E	0.5	D-BU/GY	7473	Incremental Encoder Impulse Signal	I	-
F	0.5	YE	7474	Incremental Encoder Direction Signal	I	-
G	0.5	WH/L-GN	7475	Incremental Encoder Sensor (8V) Supply	I	-
H	0.5	VT	7476	Incremental Encoder Sensor Return	I	-

A23C Liftgate Latch Assembly (except TB5)



Connector Part Information

Harness Type: Liftgate

OEM Connector: 13607335

Service Connector: 13316141

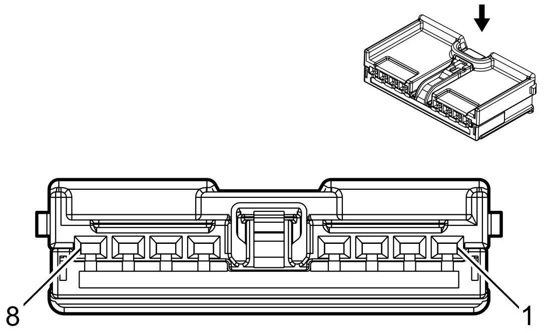
Description: 4-Way F 1.5 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575790	J-35616-2A (GY)	J-38125-553	8240-0127	22	E	C

A23C Liftgate Latch Assembly (except TB5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	1450	Ground	I	-
2	0.35	VT/GY	1303	Lift Gate Ajar Switch Signal (1)	I	-
3	0.5	D-BU/WH	6128	Rear Closure Unlatch Motor Unlatch Control	I	-
4	-	-	-	Not Occupied	-	-



Connector Part Information

Harness Type: Liftgate

OEM Connector: 13827492

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 1.5 Series (BK)

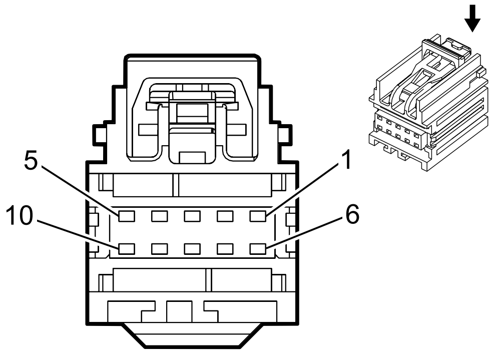
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575790	J-35616-2A (GY)	J-38125-553	8240-0127	22	E	C
II	13327201	J-35616-2A (GY)	J-38125-553	8240-0128	22	C	A

A23C Liftgate Latch Assembly (TB5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE	3988	Detent Lift Gate Signal	I	-
2	0.35	VT/L-GN	3987	Cinch Latch Lift Gate Signal	I	-
3	0.35 0.35	L-GN L-GN/WH	6127 6127	Lift Gate Unlatch Switch Signal Lift Gate Unlatch Switch Signal	I	-
4	0.5	GY	3986	Cinch Latch Lift Gate Stall Motor Release Signal	I	-
5	0.35	D-BU/BK	6000	Lift Gate Ajar Switch Signal (2)	I	-
6	0.5	BK/VT	5801	Lift Gate Object Sensor Low Reference	I	-
7	1	BN	5790	Lift Gate Cinch Latch Motor Open Control	II	-
8	1	D-BU/GY	5791	Lift Gate Cinch Latch Motor Close Control	II	-

A23D Door Latch Assembly - Driver



Connector Part Information

Harness Type: Driver Door

OEM Connector: 13576047

Service Connector: 15127041

Description: 10-Way F 0.64 YESC Kaizen Series (GN)

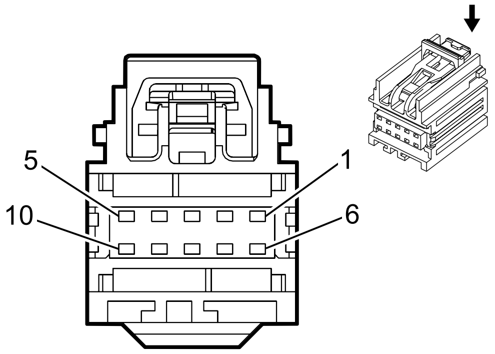
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P
II	13327118	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

A23D Door Latch Assembly - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY	745	Left Front Door Ajar Switch Signal	I	-
2	0.35	WH/YE	3574	Driver Door Open Switch Signal	I	-
3	0.35 0.5	BK BK	1150 1150	Ground Ground	I	-
4	0.35	WH/VT	3270	Driver Door Lock Motor Status	I	-
5	0.35	D-BU/VT	1124	Door Lock Key Switch Unlock Signal	I	-
6	0.75	BN	5910	Door Double Lock Actuator Lock Control	II	-
7	0.75	GY	5911	Door Lock Actuator Lock Control 2	II	-
8	0.75 0.75	BN/YE BN/BK	294 294	Door Lock Actuator Unlock Control Door Lock Actuator Unlock Control	II	-
9-10	-	-	-	Not Occupied	-	-

A23LR Door Latch Assembly - Left Rear



Connector Part Information

Harness Type: Left Rear Door

OEM Connector: 13576047

Service Connector: 15127041

Description: 10-Way F 0.64 YESC Kaizen Series (GN)

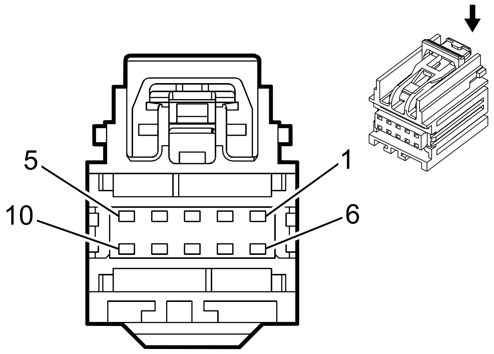
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P
II	13327118	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

A23LR Door Latch Assembly - Left Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35 0.35	GY GY/WH	747 747	Left Rear Door Ajar Switch Signal Left Rear Door Ajar Switch Signal	I	-
2	0.35	BN/WH	3269	Child Security Lock Motor Status Signal Left Rear	I	-
3	0.35 0.5	BK BK	1150 1150	Ground Ground	I	-
4-5	-	-	-	Not Occupied	-	-
6	0.75	BN	5910	Door Double Lock Actuator Lock Control	II	-
7	0.75	GY	295	Door Lock Actuator Lock Control	II	-
8	0.75	BN/YE	294	Door Lock Actuator Unlock Control	II	-
9	0.75	WH/D-BU	3266	Child Security Lock Motor Unlock Control	II	-
10	-	-	-	Not Occupied	-	-

A23P Door Latch Assembly - Passenger



Connector Part Information

Harness Type: Passenger Door

OEM Connector: 13576047

Service Connector: 15127041

Description: 10-Way F 0.64 YESC Kaizen Series (GN)

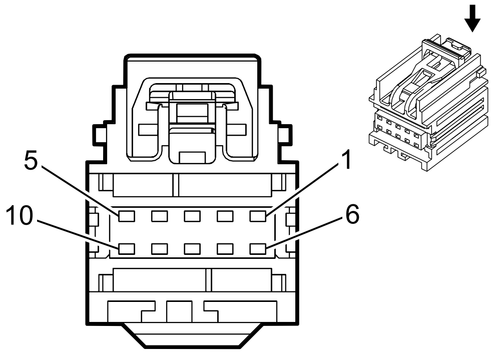
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327118	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
II	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

A23P Door Latch Assembly - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.35	VT	4009	Co-Driver Door Lock Status	II	-
3	0.35 0.5	BK BK	1250 1250	Ground Ground	II	-
4	0.35	VT	4009	Co-Driver Door Lock Status	II	-
5	0.35	GY	746	Right Front Door Ajar Switch Signal	II	-
6-7	-	-	-	Not Occupied	-	-
8	0.75	BN/YE	294	Door Lock Actuator Unlock Control	I	-
9	0.75	GY	295	Door Lock Actuator Lock Control	I	-
10	0.75	BN	5910	Door Double Lock Actuator Lock Control	I	-

A23RR Door Latch Assembly - Right Rear



Connector Part Information

Harness Type: Right Rear Door

OEM Connector: 13576047

Service Connector: 15127041

Description: 10-Way F 0.64 YESC Kaizen Series (GN)

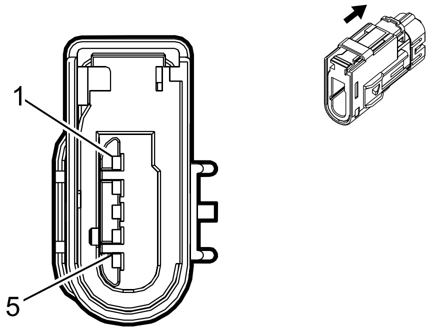
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327118	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
II	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

A23RR Door Latch Assembly - Right Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-2	-	-	-	Not Occupied	-	-
3	0.35 0.5	BK BK	1250 1250	Ground Ground	II	-
4	0.35	GY/BK	3268	Child Security Lock Motor Status Signal Right Rear	II	-
5	0.35 0.35	GY GY/WH	748 748	Right Rear Door Ajar Switch Signal Right Rear Door Ajar Switch Signal	II	-
6	-	-	-	Not Occupied	-	-
7	0.75	WH/D-BU	3266	Child Security Lock Motor Unlock Control	I	-
8	0.75	BN/YE	294	Door Lock Actuator Unlock Control	I	-
9	0.75	GY	295	Door Lock Actuator Lock Control	I	-
10	0.75	BN	5910	Door Double Lock Actuator Lock Control	I	-

A24D Door Handle Assembly - Driver Exterior (X88 or Z88, with ATH)



Connector Part Information

Harness Type: Driver Door

OEM Connector: 13915624

Service Connector: Service by Harness - See Part Catalog

Description: 5-Way M 1.2 Series, Sealed (NA)

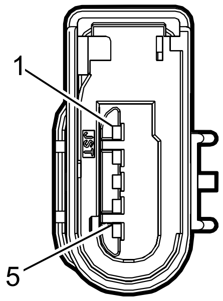
Terminal Part Information

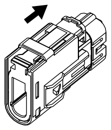
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A24D Door Handle Assembly - Driver Exterior (X88 or Z88, with ATH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	L-GN/WH	3570	Driver Door Handle Switch Signal	I	-
2	0.35	VT	3560	Passive Entry Driver Door Antenna Signal Hi	I	-
3	-	-	-	Not Occupied	-	-
4	0.35	VT/GY	3561	Passive Entry Driver Door Antenna Signal Lo	I	-
5	0.5	BK	1150	Ground	I	-

A24D Door Handle Assembly - Driver Exterior (Z75)





Connector Part Information

Harness Type: Driver Door

OEM Connector: 13934096

Service Connector: Service by Harness - See Part Catalog

Description: 5-Way M 1.2 Series, Sealed (L-GY)

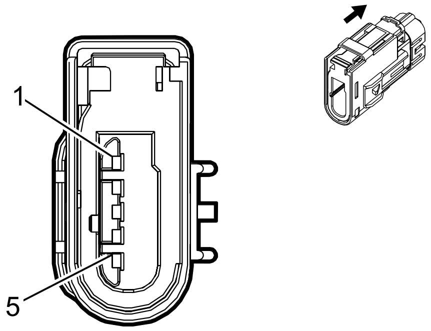
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A24D Door Handle Assembly - Driver Exterior (Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	L-GN/WH	3570	Driver Door Handle Switch Signal	I	-
2	0.35	VT	3560	Passive Entry Driver Door Antenna Signal Hi	I	-
3	0.5	GY/WH	5996	Driver Outside Rear View Mirror Puddle Lamp Supply Voltage	I	HD7
4	0.35	VT/GY	3561	Passive Entry Driver Door Antenna Signal Lo	I	-
5	0.5	BK	1150	Ground	I	-

A24LR Door Handle Assembly - Left Rear Exterior (X88 or Z88, with ATH)



Connector Part Information

Harness Type: Left Rear Door

OEM Connector: 13915623

Service Connector: Service by Harness - See Part Catalog

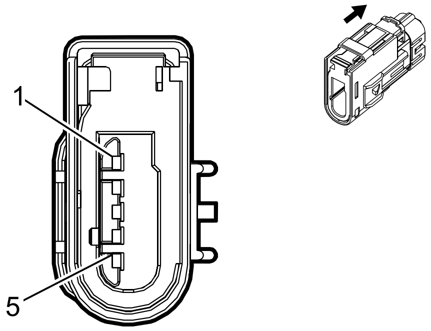
Description: 5-Way M 1.2 Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A24LR Door Handle Assembly - Left Rear Exterior (X88 or Z88, with ATH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BN/YE	6157	Left Rear Door Handle Switch Signal	I	-
2-4	-	-	-	Not Occupied	-	-
5	0.5	BK	1150	Ground	I	-



Connector Part Information

Harness Type: Left Rear Door

OEM Connector: 13939427

Service Connector: Service by Harness - See Part Catalog

Description: 5-Way M 1.2 Series, Sealed (BN)

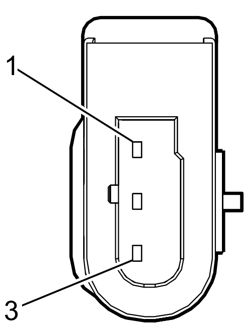
Terminal Part Information

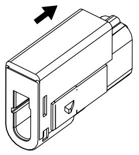
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A24LR Door Handle Assembly - Left Rear Exterior (Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BN/YE	6157	Left Rear Door Handle Switch Signal	I	-
2	-	-	-	Not Occupied	-	-
3	0.5	GY/L-GN	5996	Left Rear Outside Rear View Mirror Puddle Lamp Supply Voltage	I	-
4	-	-	-	Not Occupied	-	-
5	0.5	BK	1150	Ground	I	-

A24P Door Handle Assembly - Passenger Exterior (X88 or Z88, with ATH)





Connector Part Information

Harness Type: Passenger Door

OEM Connector: 13915624

Service Connector: Service by Harness - See Part Catalog

Description: 5-Way M 1.2 Series, Sealed (NA)

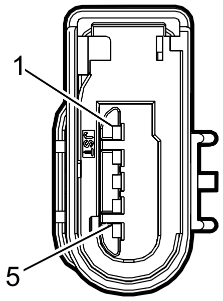
Terminal Part Information

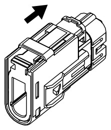
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A24P Door Handle Assembly - Passenger Exterior (X88 or Z88, with ATH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	VT/WH	3571	Passenger Door Handle Switch Signal	I	-
2	0.35	L-GN/YE	3562	Passive Entry Passenger Door Antenna Signal Hi	I	-
3	-	-	-	Not Occupied	-	-
4	0.35	L-GN/BK	3563	Passive Entry Passenger Door Antenna Signal Lo	I	-
5	0.5	BK	1250	Ground	I	-

A24P Door Handle Assembly - Passenger Exterior (Z75)





Connector Part Information

Harness Type: Passenger Door

OEM Connector: 13934096

Service Connector: Service by Harness - See Part Catalog

Description: 5-Way M 1.2 Series, Sealed (L-GY)

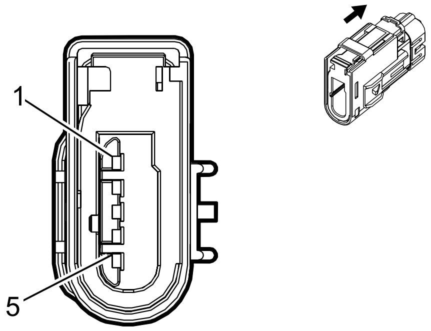
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A24P Door Handle Assembly - Passenger Exterior (Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	VT/WH	3571	Co_Driver Door Handle Switch Signal	I	-
2	0.35	L-GN/YE	3562	Passive Entry Co_Driver Door Antenna Signal Hi	I	-
3	0.5	GY/L-GN	5996	Co_Driver Outside Rear View Mirror Puddle Lamp Supply Voltage	I	HD7
4	0.35	L-GN/BK	3563	Passive Entry Co_Driver Door Antenna Signal Lo	I	-
5	0.35	BK	1250	Ground	I	-

A24RR Door Handle Assembly - Right Rear Exterior (X88 or Z88, with ATH)



Connector Part Information

Harness Type: Right Rear Door

OEM Connector: 13915623

Service Connector: Service by Harness - See Part Catalog

Description: 5-Way M 1.2 Series, Sealed (BK)

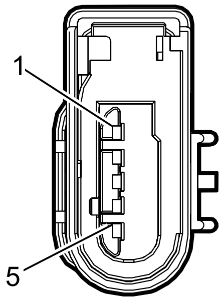
Terminal Part Information

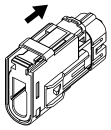
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A24RR Door Handle Assembly - Right Rear Exterior (X88 or Z88, with ATH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE/GY	6158	Right Rear Door Handle Switch Signal	I	-
2–4	-	-	-	Not Occupied	-	-
5	0.35	BK	1250	Ground	I	-

A24RR Door Handle Assembly - Right Rear Exterior (Z75)





Connector Part Information

Harness Type: Right Rear Door

OEM Connector: 13939427

Service Connector: Service by Harness - See Part Catalog

Description: 5-Way M 1.2 Series, Sealed (BN)

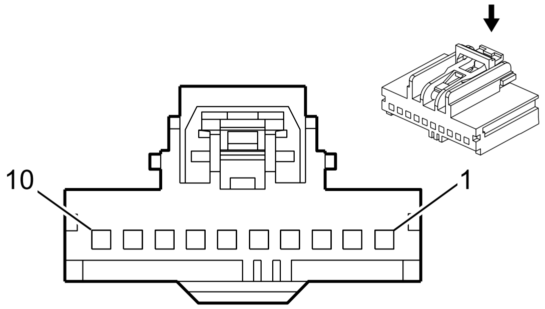
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A24RR Door Handle Assembly - Right Rear Exterior (Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE/GY	6158	Left Rear Door Handle Switch Signal	I	-
2	-	-	-	Not Occupied	-	-
3	0.5	GY/L-GN	5996	Right Rear Outside Rear View Mirror Puddle Lamp Supply Voltage	I	-
4	-	-	-	Not Occupied	-	-
5	0.5	BK	1250	Ground	I	-

A33 Media Disc Player X1 (TG5)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15490628

Service Connector: 89047355

Description: 10-Way F 0.64 Kaizen Series (BK)

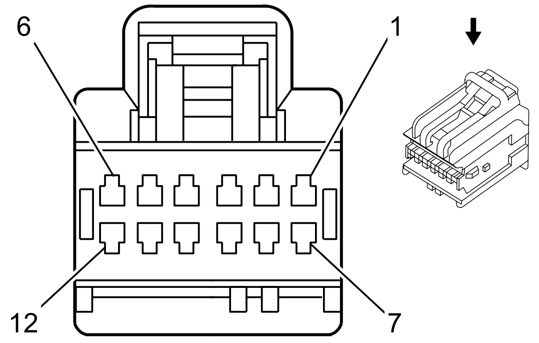
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P
II	13327118	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
III	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

A33 Media Disc Player X1 (TG5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/VT	3999	MOST Control	I	-
2	-	-	-	Not Occupied	-	-
3	0.5	WH/L-GN	3997	MOST Serial Data (-)	III	-
4	0.5	GY/VT	3998	MOST Serial Data (+)	I	-
5	0.5	WH/L-GN	3997	MOST Serial Data (-)	I	-
6	0.5	GY/VT	3998	MOST Serial Data (+)	I	-
7	-	-	-	Not Occupied	-	-
8	0.75	BK	2550	Ground	II	-
9	0.35	GY	4016	Remote Media Eject Signal	III	-
10	0.75	RD/VT	340	Battery Positive Voltage	II	-

A33 Media Disc Player X1 (U42)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13551678

Service Connector: 89047364

Description: 12-Way F 0.64 Series (BK)

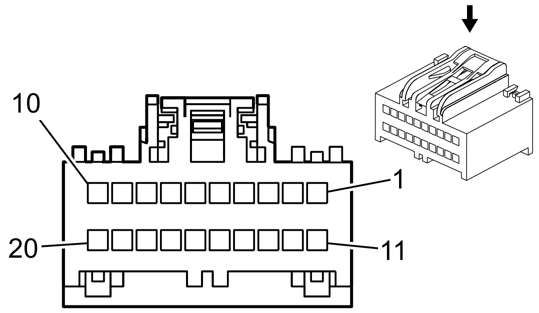
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579945	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
II	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
III	13582250	J-35616-16 (L-GN)	J-38125-559	15445905	23	K	K
IV	13575549	J-35616-16 (L-GN)	J-38125-559	15445905	23	J	J

A33 Media Disc Player X1 (U42)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	RD/VT	340	Battery Positive Voltage	I	-
2	0.35	GY	4016	Remote Media Eject Signal	II	-
3	0.5	WH/L-GN	3997	MOST Serial Data (-)	II	-
4	0.5	GY/VT	3998	MOST Serial Data (+)	II	-
5	0.5	WH/L-GN	3997	MOST Serial Data (-)	II	-
6	0.5	GY/VT	3998	MOST Serial Data (+)	II	-
7	0.5	BK	2550	Ground	II	-
8	0.35	L-GN/YE	7066	Entertainment Remote Enable Signal	II	-
9	-	-	-	Not Occupied	-	-
10	0.35	WH/VT	3999	MOST Control	II	-
11	0.5	L-GN	5060	Low Speed GMLAN Serial Data	II	-
12	-	-	-	Not Occupied	-	-

A33 Media Disc Player X2 (U42)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15491304

Service Connector: 15126710

Description: 20-Way F USCAR 64 Series (GY)

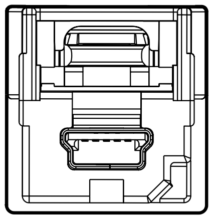
Terminal Part Information

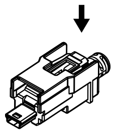
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

A33 Media Disc Player X2 (U42)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	L-GN/WH	3355	Left Rear Seat Audio Headphone Signal	I	-
2	0.35	BN/GY	3357	Right Rear Seat Audio Headphone Signal	I	-
3	0.35	D-BU/VT	3356	Rear Seat Audio Headphone Common Signal	I	-
4	0.5	Bare	3354	Rear Seat Audio Headphone Drain Wire	I	-
5-10	-	-	-	Not Occupied	-	-
11	0.35	YE	2059	Left Auxiliary Audio Signal (1)	I	-
12	0.35	WH	2058	Right Auxiliary Audio Signal (1)	I	-
13	0.35	BN	3374	Auxiliary Audio Common Signal (2)	I	-
14	0.5	Bare	5345	Auxiliary Audio Drain Wire (1)	I	-
15	0.35	YE	2056	Auxiliary Video High Signal	I	-
16	0.5	Bare	2057	Auxiliary Video Low Signal	I	-
17-20	-	-	-	Not Occupied	-	-

A33 Media Disc Player X3 (U42)





Connector Part Information

Harness Type: Instrument Panel USB

OEM Connector: 13584746

Service Connector: Service by Cable Assembly — See Parts Catalog

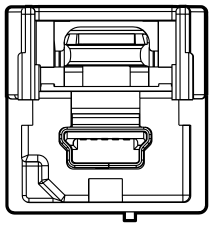
Description: 5-Way M 2.0 mini B USB Type (BK)

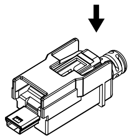
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A33 Media Disc Player X3 (U42)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	USB	—	USB Serial Data	I	—





Connector Part Information

Harness Type: Instrument Panel LVDS

OEM Connector: 13584927

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 5-Way M 2.0 Mini B USB Type (BK)

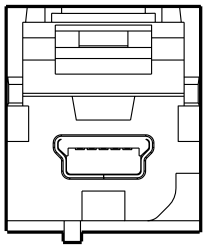
Terminal Part Information

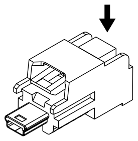
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A33 Media Disc Player X4 (U42)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	LVDS	—	Video Display Signal	I	—

A33 Media Disc Player X5





Connector Part Information

Harness Type: Instrument Panel LVDS

OEM Connector: 13584755

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 5-Way M 2.0 Mini B USB Type (BK)

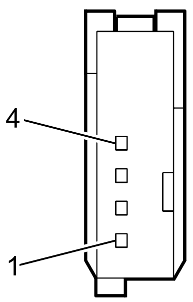
Terminal Part Information

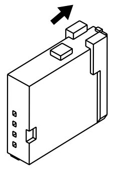
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

A33 Media Disc Player X5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	LVDS	—	Video Display Signal	I	—

A34 HVAC Controls - Auxiliary





Connector Part Information

Harness Type: Floor Console

OEM Connector: 13820711

Service Connector: 19300398

Description: 4-Way F 0.64 Series (BK)

Harness Type: Headliner

OEM Connector: 13820711

Service Connector: 19300398

Description: 4-Way F 0.64 Series (BK)

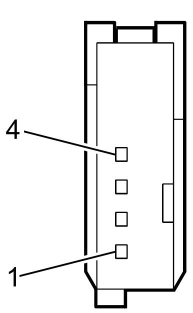
Terminal Part Information

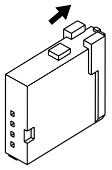
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
II	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

A34 HVAC Controls - Auxiliary

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5 0.35	VT/L-GN VT/L-GN	1739 1739	Run/Crank Ignition 1 Voltage Run/Crank Ignition 1 Voltage	I	-
2	-	-	-	Not Occupied	-	-
3	0.35	L-GN/YE	7531	Linear Interconnect Network Bus 9	I	-
4	0.35 0.5	BK/WH BK	1851 1050	Signal Ground Ground	I	-

A34 HVAC Controls - Auxiliary (AZ3)





Connector Part Information

Harness Type: Overhead Console

OEM Connector: 13820711

Service Connector: No SDC/FSU

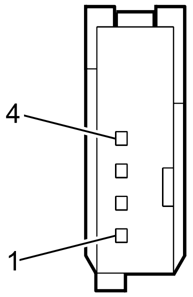
Description: 4-Way F 0.64 Series (BK)

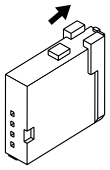
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

A34 HVAC Controls - Auxiliary (AZ3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	VT/L-GN	1739	Run/Crank Ignition 1 Voltage	I	-
2	-	-	-	Not Occupied	-	-
3	0.35	L-GN/YE	7531	Linear Interconnect Network Bus 9	I	-
4	0.5	BK	1050	Ground	I	-





Connector Part Information

Harness Type: Floor Console

OEM Connector: 13820711

Service Connector: No SDC/FSU

Description: 4-Way F 0.64 Series (BK)

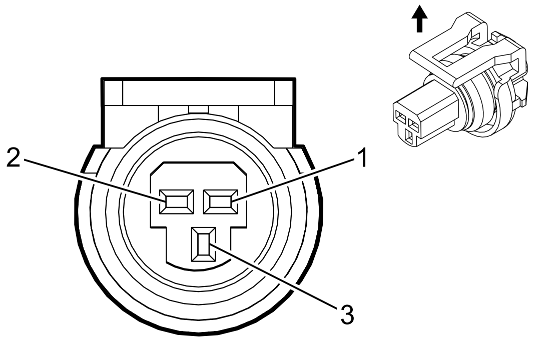
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

A34 HVAC Controls - Auxiliary (except AZ3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/L-GN	1739	Run/Crank Ignition 1 Voltage	I	-
2	-	-	-	Not Occupied	-	-
3	0.35	L-GN/YE	7531	Linear Interconnect Network Bus 9	I	-
4	0.35	BK/WH	1851	Signal Ground	I	-

B1 A/C Refrigerant Pressure Sensor



Connector Part Information

Harness Type: Engine

OEM Connector: 13846842

Service Connector: 19301715

Description: 3-Way F 150 GT Series, Sealed (BK)

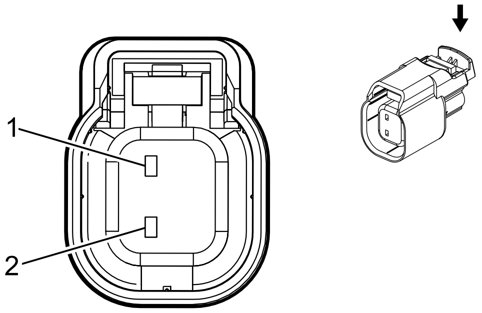
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13584457	J-35616-2A (GY)	J-38125-553	15326267	19	E	4

B1 A/C Refrigerant Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/BN	5514	A/C Refrigerant Pressure Sensor Low Reference	I	-
2	0.5	BN/RD	2700	A/C Pressure Sensor 5 Volt Reference	I	-
3	0.5	L-GN	380	A/C Refrigerant Pressure Sensor Signal	I	-

B5LF Wheel Speed Sensor - Left Front



Connector Part Information

Harness Type: Chassis

OEM Connector: 13828712

Service Connector: 19300543

Description: 2-Way F 1.5 Series, Sealed (BK)

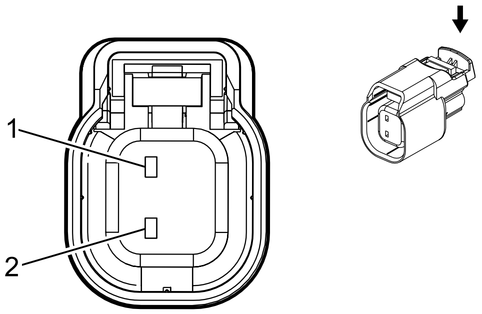
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578914	J-35616-2A (GY)	J-38125-11A	7116-4102-08	9	E	1
II	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B5LF Wheel Speed Sensor - Left Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/WH	7064	Wheel Speed Sensor Supply Voltage Left Front	I	-
2	0.5	GY	830	Wheel Speed Sensor Signal Left Front	I	-

B5LR Wheel Speed Sensor - Left Rear



Connector Part Information

Harness Type: Chassis

OEM Connector: 13828712

Service Connector: 19300543

Description: 2-Way F 1.5 Series, Sealed (BK)

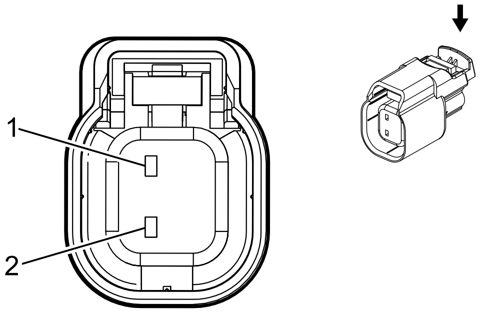
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578914	J-35616-2A (GY)	J-38125-11A	7116-4102-08	9	E	1
II	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B5LR Wheel Speed Sensor - Left Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/BK	7127	Wheel Speed Sensor Supply Voltage Left Rear	I	-
2	0.5	D-BU	884	Wheel Speed Sensor Signal Left Rear	I	-

B5RF Wheel Speed Sensor - Right Front



Connector Part Information

Harness Type: Chassis

OEM Connector: 13828712

Service Connector: 19300543

Description: 2-Way F 1.5 Series, Sealed (BK)

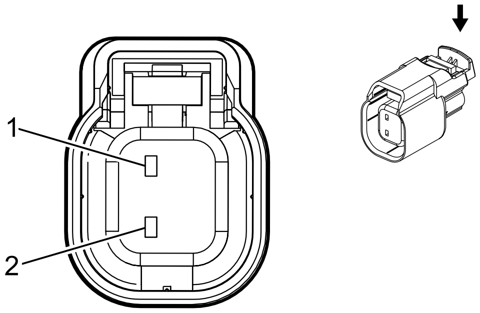
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578914	J-35616-2A (GY)	J-38125-11A	7116-4102-08	9	E	1
II	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B5RF Wheel Speed Sensor - Right Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/BN	7065	Wheel Speed Sensor Supply Voltage Right Front	I	-
2	0.5	YE	872	Wheel Speed Sensor Signal Right Front	I	-

B5RR Wheel Speed Sensor - Right Rear



Connector Part Information

Harness Type: Chassis

OEM Connector: 13828712

Service Connector: 19300543

Description: 2-Way F 1.5 Series, Sealed (BK)

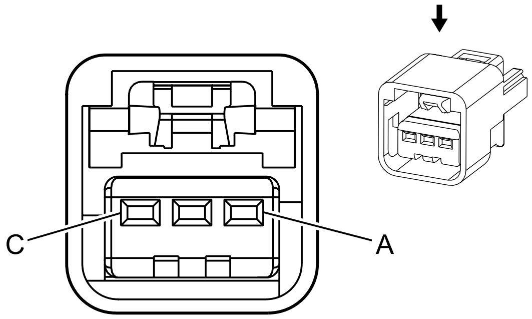
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578914	J-35616-2A (GY)	J-38125-11A	7116-4102-08	9	E	1
II	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B5RR Wheel Speed Sensor - Right Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/YE	7128	Wheel Speed Sensor Supply Voltage Right Rear	I	-
2	0.5	VT	882	Wheel Speed Sensor Signal Right Rear	I	-

B6 Clutch Position Sensor



Connector Part Information

Harness Type: Brake Clutch Jumper

OEM Connector: 15332132

Service Connector: 88953364

Description: 3-Way F 150 GT Series (BK)

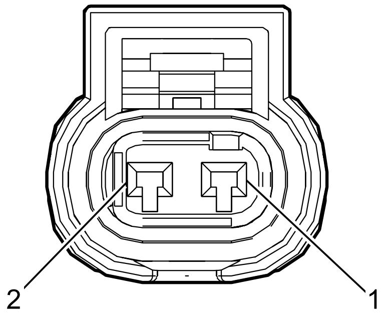
Terminal Part Information

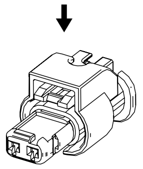
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327109	J-35616-2A (GY)	J-38125-553	12191812	19	E	C

B6 Clutch Position Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	GY/RD	6109	Clutch Apply Sensor Voltage Reference	I	-
B	0.5	YE	6111	Clutch Apply Sensor Signal	I	-
C	0.5	BK/GY	6110	Clutch Apply Sensor Low Reference	I	-

B9 Ambient Air Temperature Sensor





Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 13927761

Service Connector: 19329415

Description: 2-Way F 1.2 Multiple Contact Point Series, Sealed (BK with BK Inner Connector)

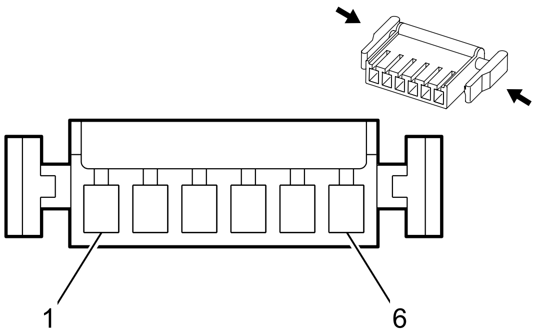
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13587558	J-35616-64B (L-BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

B9 Ambient Air Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU/GY	636	Outside Ambient Air Temperature Sensor Signal	I	-
2	0.5	BK/D-BU	61	Outside Ambient Temperature Sensor Low Reference	I	-

B10B Ambient Light/Sunload Sensor



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13726957

Service Connector: 13576539

Description: 6-Way F 0.64 Micro Quadlock Series (BK)

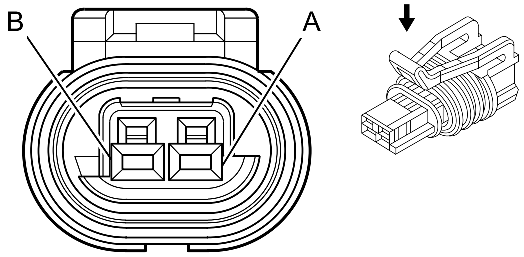
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575521	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	H	H

B10B Ambient Light/Sunload Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY	728	Security Indicator Control	I	-
2	0.35	GY	590	Solar Sensor Driver Signal	I	-
3	0.35	D-BU/WH	734	Inside Air Temperature Sensor Signal	I	-
4	0.35	YE/VT	1783	Twilight Sentinel Delay Signal	I	-
5	0.35	WH/D-BU	278	Ambient Light Sensor Signal	I	-
6	0.35	BK/YE	1791	Air Temperature Door Control Low Reference	I	-

B14A Transmission Output Shaft Speed Sensor (NP0 or NQH)



Connector Part Information

Harness Type: Engine

OEM Connector: 15449028

Service Connector: 88987993

Description: 2-Way F 150 GT Series, Sealed (BK)

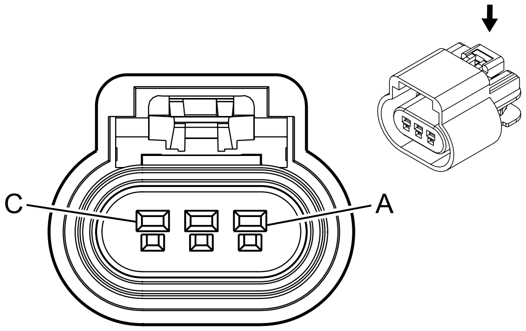
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13584457	J-35616-2A (GY)	J-38125-553	15326267	19	E	4

B14A Transmission Output Shaft Speed Sensor (NP0 or NQH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	VT/WH	821	Vehicle Speed Sensor Signal	I	-
B	0.5	BK/L-GN	822	Vehicle Speed Sensor Low Reference	I	-

B18 Battery Current Sensor



Connector Part Information

Harness Type: Engine

OEM Connector: 13519047

Service Connector: SEE NOTE

Description: 3-Way F 150 GT Series, Sealed (BK)

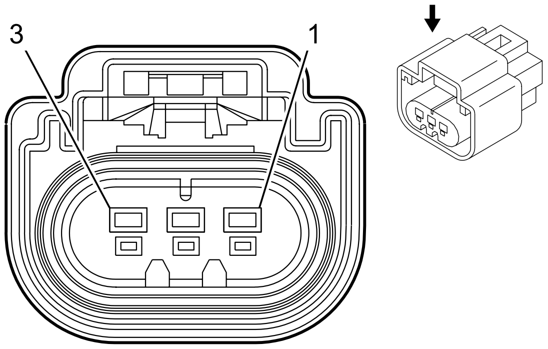
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578912	J-35616-2A (GY)	J-38125-553	12191819	8	E	1

B18 Battery Current Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	D-BU/VT	5076	Current Sensor Supply Voltage	I	-
B	0.5	BK/PU	5077	Current Sensor Low Reference	I	-
C	0.5	WH/YE	5075	Current Sensor Signal	I	-

B19B Brake Booster Vacuum Sensor



Connector Part Information

Harness Type: Chassis

OEM Connector: 13511996

Service Connector: 13580873

Description: 3-Way F 150 GT Series, Sealed (GY)

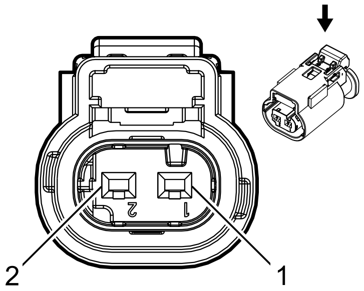
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578912	J-35616-2A (GY)	J-38125-553	12191819	8	E	1

B19B Brake Booster Vacuum Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/VT	6030	Brake Vacuum Sensor Signal	I	-
2	0.5	BK/YE	6032	Brake Vacuum Sensor Low Reference	I	-
3	0.5	YE/RD	6031	Brake Vacuum Sensor 5 Volt Reference	I	-

B20 Brake Fluid Level Switch



Connector Part Information

Harness Type: Chassis

OEM Connector: 13735326

Service Connector: 13587326

Description: 2-Way F 1.2 MLK Series, Sealed (BK)

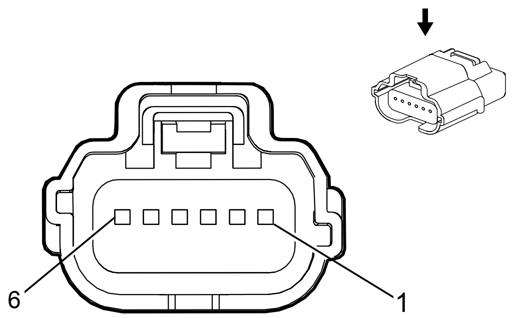
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B20 Brake Fluid Level Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK	2150	Ground	I	-
2	0.5	L-GN/GY	333	Brake Fluid Level Sensor Signal	I	-

B22 Brake Pedal Position Sensor



Connector Part Information

Harness Type: Brake Clutch Jumper

OEM Connector: 13893502

Service Connector: 13577043

Description: 6-Way F 64 Series, Sealed (NA)

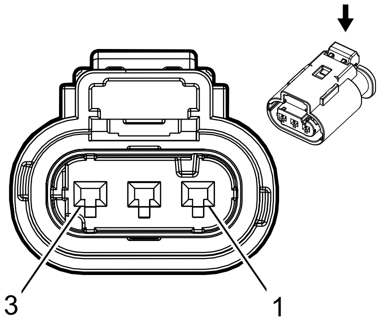
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B22 Brake Pedal Position Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/L-GN	552	Sensor Low Reference	I	-
2	0.5	GY/RD	598	5 Volt Reference	I	-
3	0.5	WH/L-GN	526	Stop Lamp Switch Signal	I	-
4	0.5	D-BU/YE	5361	Brake Apply Sensor Signal	I	-
5	0.5	BK/BN	5360	Brake Apply Sensor Low Reference	I	-
6	0.5	WH	5359	Brake Apply Sensor Supply Voltage	I	-

B23 Camshaft Position Sensor



Connector Part Information

Harness Type: Camshaft Jumper

OEM Connector: 13503570

Service Connector: 19299690

Description: 3-Way F 1.2 MLK Series, Sealed (BK)

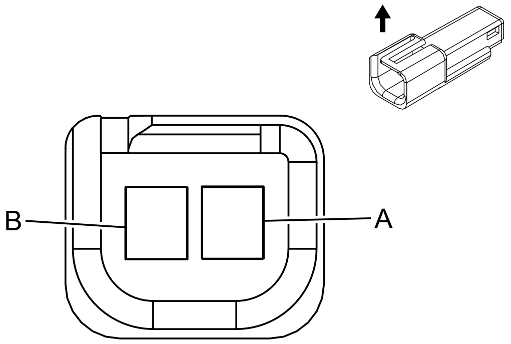
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575427	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

B23 Camshaft Position Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/L-BU	5300	5-Volt Reference 1	I	-
2	0.5	BK/L-GN	5301	Low Reference	I	-
3	0.5	YE/VT	5275	Camshaft Position Signal	I	-

B24 Cellular Phone Microphone



Connector Part Information

Harness Type: Headliner

OEM Connector: 12047663

Service Connector: 13584278

Description: 2-Way M 150 Metri Pack Series (BK)

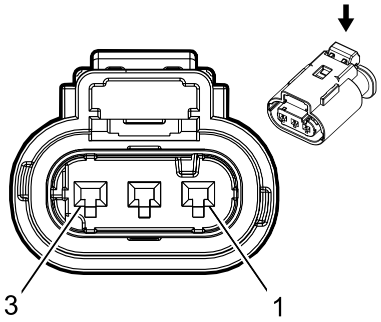
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575463	J-35616-3 (GY)	J-38125-12A	12047581	2	E	C

B24 Cellular Phone Microphone

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	BK/BN	654	Cellular Telephone Microphone Low Reference	I	-
B	0.35	D-BU	655	Cellular Telephone Microphone Signal	I	-

B26 Crankshaft Position Sensor



Connector Part Information

Harness Type: Engine

OEM Connector: 13763990

Service Connector: 19299690

Description: 3-Way F 1.2 MLK Series, Sealed (BK)

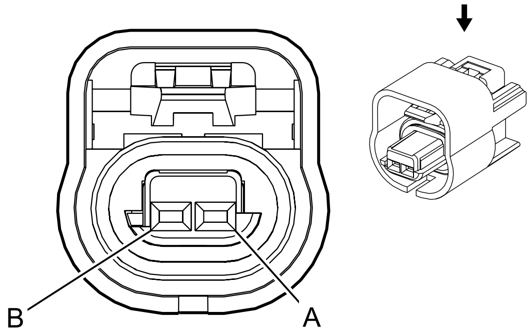
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B26 Crankshaft Position Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN	6271	Crankshaft 60X Sensor Signal	I	-
2	0.5	BK/PU	6272	Crankshaft 60X Sensor Low Reference	I	-
3	0.5	VT/D-BU	6270	Crankshaft 60X Sensor Voltage	I	-

B34 Engine Coolant Temperature Sensor



Connector Part Information

Harness Type: Engine

OEM Connector: 15355317

Service Connector: 19178093

Description: 2-Way F 150 GT Series, Sealed (BK)

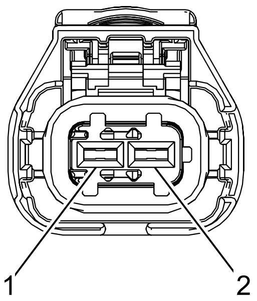
Terminal Part Information

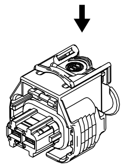
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13584457	J-35616-2A (GY)	J-38125-553	15326267	19	E	4

B34 Engine Coolant Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BK/BN	2761	Coolant Temperature Sensor Low Reference	I	-
B	0.5	D-BU	410	Engine Coolant Temperature Sensor Signal	I	-

B35 Engine Oil Level Switch





Connector Part Information

Harness Type: Engine

OEM Connector: 13930085

Service Connector: Not Available

Description: 2-Way F 2.8 Series, Sealed (BK)

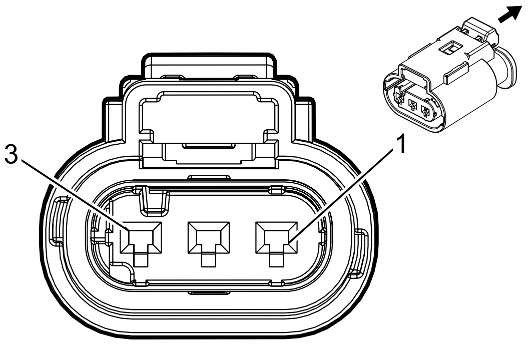
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-35 (VT)	J-38125-561	1928498056	8	E	1

B35 Engine Oil Level Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/WH	451	Signal Ground	I	-
2	0.5	BN/L-GN	1174	Oil Level Switch Signal	I	-

B37B Engine Oil Pressure Sensor



Connector Part Information

Harness Type: Engine

OEM Connector: 13889776

Service Connector: 19301717

Description: 3-Way F 1.2 MLK Series, Sealed (BK)

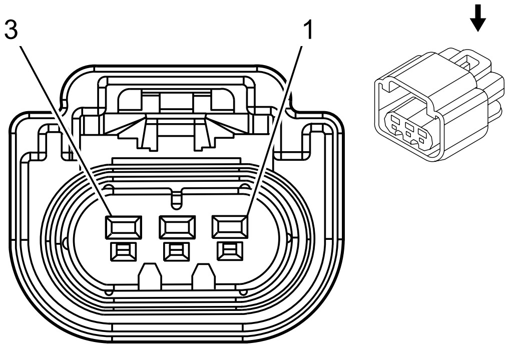
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B37B Engine Oil Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/BN	331	Oil Pressure Sensor Signal	I	-
2	0.5	BK/PU	2755	Oil Pressure Sensor Low Reference	I	-
3	0.5	WH/RD	2705	Oil Pressure Sensor 5 Volt Reference	I	-

B47 Fuel Pressure Sensor



Connector Part Information

Harness Type: Chassis

OEM Connector: 13511131

Service Connector: 19168035

Description: 3-Way F 150 GT Series, Sealed (BK)

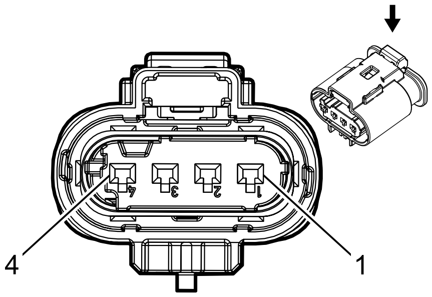
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578912	J-35616-2A (GY)	J-38125-553	12191819	8	E	1

B47 Fuel Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU/WH	7446	Fuel Line Pressure Sensor Signal	I	-
2	0.5	BK/YE	7447	Fuel Line Pressure Sensor Low Reference	I	-
3	0.5	BN/RD	7445	Fuel Line Pressure Sensor 5V Reference	I	-

B47B Fuel Rail Pressure Sensor



Connector Part Information

Harness Type: Fuel Injector - Odd

OEM Connector: 13503575

Service Connector: 13587299

Description: 4-Way F 1.2 MLK Series, Sealed (BK)

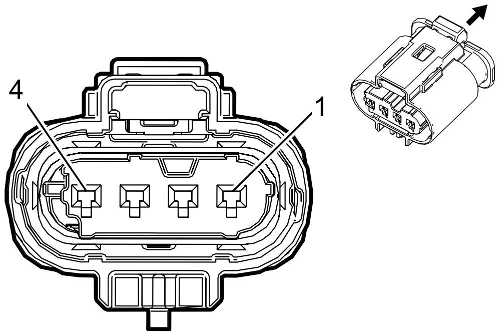
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-16 (L-GN)	J-38125-21	Not Available	Not Available	Not Available	Not Available

B47B Fuel Rail Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/RD	2917	Fuel Rail Pressure Sensor (5) Volt Reference	I	-
2	0.5	BN/YE	2161	Fuel Rail Pressure Sensor #2 Signal	I	-
3	0.5	BK/L-GN	2919	Fuel Rail Pressure Sensor Low Reference	I	-
4	0.5	L-BU/WH	2918	Fuel Rail Pressure Sensor Signal	I	-

B52C Heated Oxygen Sensor - Bank 1 Sensor 1



Connector Part Information

Harness Type: Engine

OEM Connector: 13869004

Service Connector: 19301716

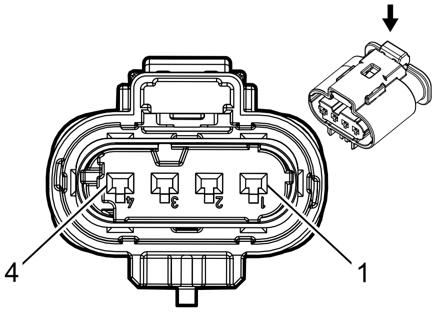
Description: 4-Way F 1.2 MLK Series, Sealed (D-GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B52C Heated Oxygen Sensor - Bank 1 Sensor 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/WH	3113	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor (1)	I	-
2	0.5 0.75	VT/D-BU VT/D-BU	5293 5293	Powertrain Main Relay Fused Supply (4) Powertrain Main Relay Fused Supply (4)	I	-
3	0.5	WH/BK	3111	Heated Oxygen Sensor Low Signal Bank 1 Sensor (1)	I	-
4	0.5	VT/GY	3110	Heated Oxygen Sensor High Signal Bank 1 Sensor (1)	I	-



Connector Part Information

Harness Type: Chassis

OEM Connector: 13815348

Service Connector: 13587298

Description: 4-Way F 1.2 MLK Series, Sealed (L-GY)

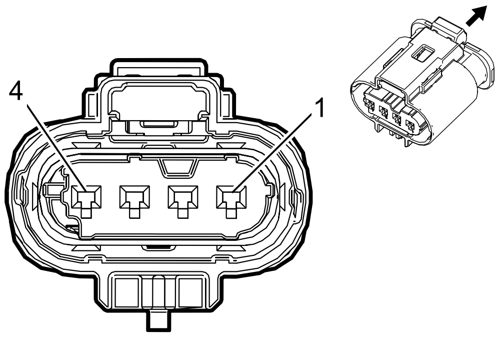
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B52D Heated Oxygen Sensor - Bank 1 Sensor 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/WH	3122	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor (2)	I	-
2	0.5	VT/D-BU	5294	Powertrain Main Relay Fused Supply (5)	I	-
3	0.5	WH/YE	3121	Heated Oxygen Sensor Low Signal Bank 1 Sensor (2)	I	-
4	0.5	VT/D-BU	3120	Heated Oxygen Sensor High Signal Bank 1 Sensor (2)	I	-

B52E Heated Oxygen Sensor - Bank 2 Sensor 1



Connector Part Information

Harness Type: Engine

OEM Connector: 13869004

Service Connector: 19301716

Description: 4-Way F 1.2 MLK Series, Sealed (D-GY)

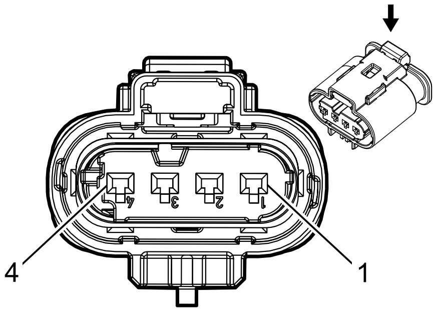
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B52E Heated Oxygen Sensor - Bank 2 Sensor 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN/YE	3212	Heated Oxygen Sensor Heater Low Control Bank 2 Sensor (1)	I	-
2	0.5 0.75	VT/D-BU VT/D-BU	5293 5293	Powertrain Main Relay Fused Supply (4) Powertrain Main Relay Fused Supply (4)	I	-
3	0.5	YE/WH	3211	Heated Oxygen Sensor Low Signal Bank 2 Sensor (1)	I	-
4	0.5	VT/WH	3210	Heated Oxygen Sensor High Signal Bank 2 Sensor (1)	I	-

B52F Heated Oxygen Sensor - Bank 2 Sensor 2



Connector Part Information

Harness Type: Engine

OEM Connector: 13815348

Service Connector: 13587298

Description: 4-Way F 1.2 MLK Series, Sealed (L-GY)

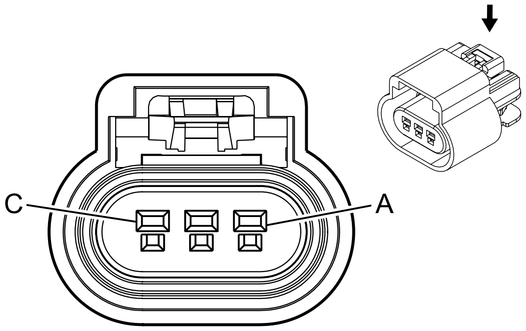
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B52F Heated Oxygen Sensor - Bank 2 Sensor 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/BN	3223	Heated Oxygen Sensor Heater Low Control Bank 2 Sensor (2)	I	-
2	0.5	VT/D-BU	5294	Powertrain Main Relay Fused Supply (5)	I	-
3	0.5	YE/D-BU	3221	Heated Oxygen Sensor Low Signal Bank 2 Sensor (2)	I	-
4	0.5	VT/L-GN	3220	Heated Oxygen Sensor High Signal Bank 2 Sensor (2)	I	-

B55 Hood Ajar Switch



Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 13519047

Service Connector: SEE NOTE

Description: 3-Way F 150 GT Series, Sealed (BK)

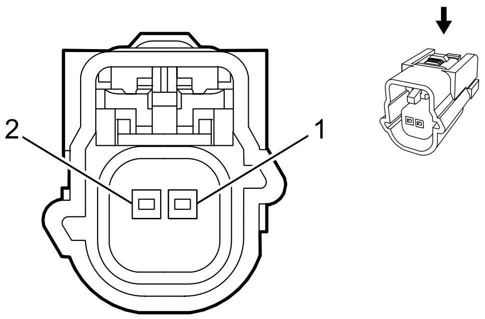
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578912	J-35616-2A (GY)	J-38125-553	12191819	8	E	1
II	13584446	J-35616-2A (GY)	J-38125-553	12191819	8	2	1

B55 Hood Ajar Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	-	-	-	Not Occupied	-	-
B	0.5	BN/L-GN	109	Hood Ajar Switch Signal	I	-
C	0.75 1	BK BK	250 250	Ground Ground	II	-

B59L Front Impact Sensor - Left



Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 13593078

Service Connector: 13577629

Description: 2-Way F 0.64 Series, Sealed (L-GY)

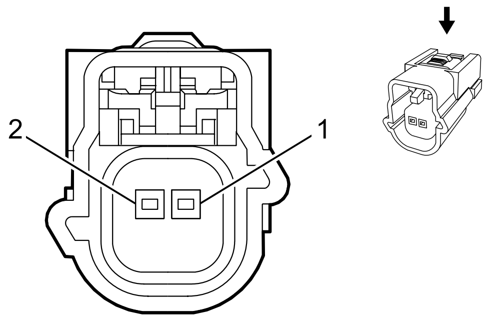
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

B59L Front Impact Sensor - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/YE	354	Left Front Discriminating Sensor Signal	I	-
2	0.5	BK/OG	5045	Left Front Discriminating Sensor Low Reference	I	-

B59R Front Impact Sensor - Right



Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 13593078

Service Connector: 13577629

Description: 2-Way F 0.64 Series, Sealed (L-GY)

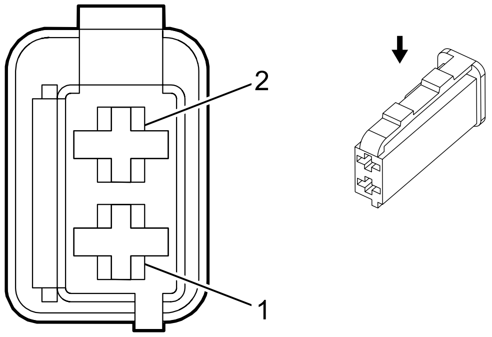
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

B59R Front Impact Sensor - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/L-GN	1409	Right Front Discriminating Sensor Signal	I	-
2	0.5	BK/OG	5600	Right Front Discriminating Sensor Low Reference	I	-

B61P Seat Belt Tension Sensor - Passenger



Connector Part Information

Harness Type: Body

OEM Connector: 13670097

Service Connector: 13580951

Description: 2-Way F 1.6 Timer Series (BK)

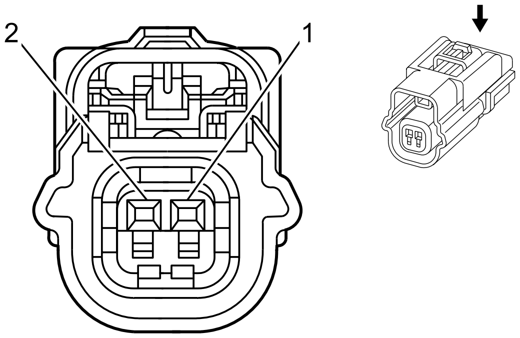
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575537	J-35616-14 (GN)	J-38125-560	962943-5	16	Not Available	Not Available

B61P Seat Belt Tension Sensor - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	D-BU/RD	5612	Passenger Seat Belt Tension Sensor Voltage Reference	I	-
2	0.35	VT/OG	5611	Passenger Seat Belt Tension Sensor Signal	I	-

B62D Seat Position Sensor - Driver



Connector Part Information

Harness Type: Driver Seat Cushion

OEM Connector: 89047381

Service Connector: 13585856

Description: 2-Way F Kaizen 64 Series, Sealed (BK)

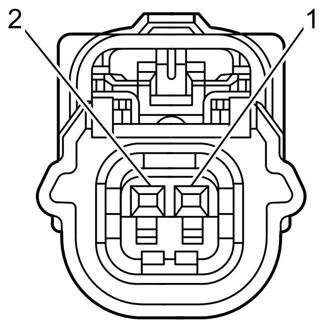
Terminal Part Information

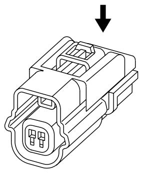
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B62D Seat Position Sensor - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35 0.35	BK/OG BK/BK	1363 1363	Driver Seat Belt Switch Low Reference Driver Seat Belt Switch Low Reference	I	-
2	0.35 0.35	OG/L-GN OG/OG	5055 5055	Driver Seat Position Switch Signal Driver Seat Position Switch Signal	I	-

B62P Seat Position Sensor - Passenger





Connector Part Information

Harness Type: Passenger Seat

OEM Connector: 89047381

Service Connector: 13585856

Description: 2-Way F Kaizen 64 Series, Sealed (BK)

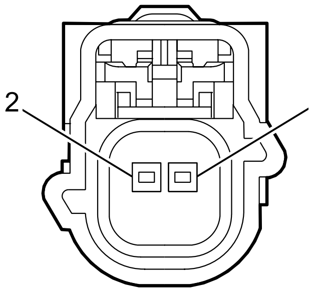
Terminal Part Information

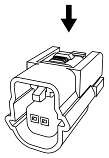
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B62P Seat Position Sensor - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35 0.35	BK/OG BK/BK	1361 1361	Passenger Seat Belt Switch Low Reference Passenger Seat Belt Switch Low Reference	I	-
2	0.35 0.35	OG/L-BU OG/OG	5056 5056	Passenger Seat Position Switch Signal Passenger Seat Position Switch Signal	I	-

B63LF Side Impact Sensor - Left Front





Connector Part Information

Harness Type: Driver Door

OEM Connector: 13593078

Service Connector: 13577629

Description: 2-Way F 0.64 Series, Sealed (L-GY)

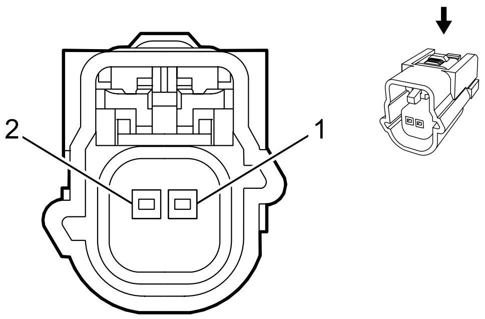
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

B63LF Side Impact Sensor - Left Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35 0.5	OG/L-GN OG/L-GN	2132 2132	Left Front Side Impact Sensing Module Signal Left Front Side Impact Sensing Module Signal	I	-
2	0.35 0.5	BK/OG BK/OG	6628 6628	Left Front Side Impact Sensing Module Low Reference Left Front Side Impact Sensing Module Low Reference	I	-

B63LR Side Impact Sensor - Left Rear



Connector Part Information

Harness Type: Body

OEM Connector: 13610095

Service Connector: 13585852

Description: 2-Way F 0.64 Series, Sealed (D-GY)

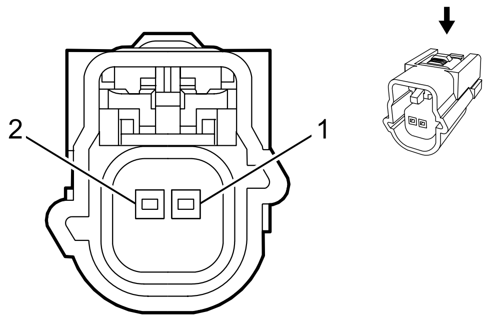
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
II	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B63LR Side Impact Sensor - Left Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	OG/D-BU	6620	Left Middle Side Impact Sensing Module Signal	I	-
2	0.35	BK/OG	6621	Left Middle Side Impact Sensing Module Low Reference	I	-

B63RF Side Impact Sensor - Right Front



Connector Part Information

Harness Type: Passenger Door

OEM Connector: 13593078

Service Connector: 13577629

Description: 2-Way F 0.64 Series, Sealed (L-GY)

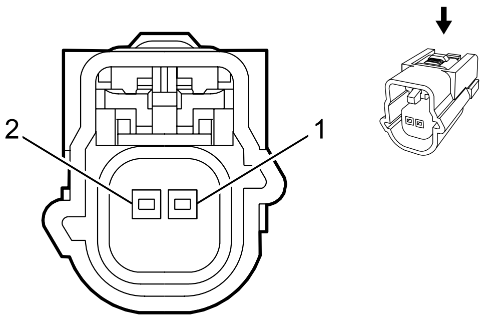
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

B63RF Side Impact Sensor - Right Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35 0.5 0.5	BN/OG BN/OG OG/L-GN	2134 2134 2134	Right Front Side Impact Sensing Module Signal Right Front Side Impact Sensing Module Signal Right Front Side Impact Sensing Module Signal	I	-
2	0.35 0.5	BK/OG BK/OG	6629 6629	Right Front Side Impact Sensing Module Low Reference Right Front Side Impact Sensing Module Low Reference	I	-

B63RR Side Impact Sensor - Right Rear



Connector Part Information

Harness Type: Body

OEM Connector: 13610095

Service Connector: 13585852

Description: 2-Way F 0.64 Series, Sealed (D-GY)

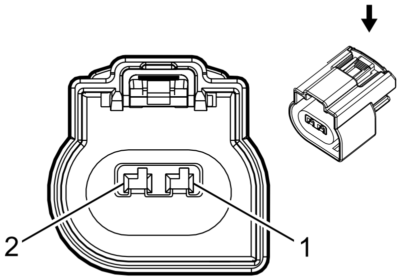
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
II	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B63RR Side Impact Sensor - Right Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	OG/VT	6624	Right Middle Side Impact Sensing Module Signal	I	-
2	0.35	BK/OG	6625	Right Middle Side Impact Sensing Module Low Reference	I	-

B68A Knock Sensor 1



Connector Part Information

Harness Type: Engine

OEM Connector: 13814755

Service Connector: 19301207

Description: 2-Way F 150 MX Series, Sealed (BK)

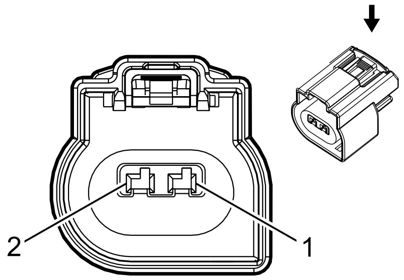
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B68A Knock Sensor 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	VT/GY	496	Knock Sensor Signal (1)	I	-
2	0.75	BK/YE	1716	Knock Sensor Low Reference (1)	I	-

B68B Knock Sensor 2



Connector Part Information

Harness Type: Engine

OEM Connector: 13814755

Service Connector: 19301207

Description: 2-Way F 150 MX Series, Sealed (BK)

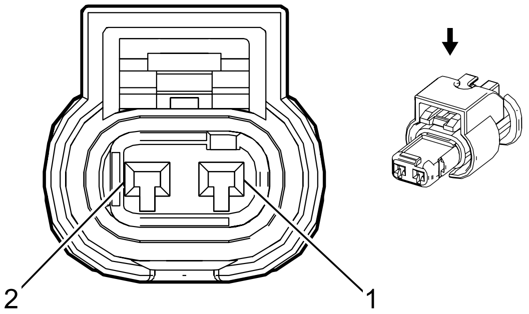
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B68B Knock Sensor 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	WH/GY	1876	Knock Sensor Signal (2)	I	-
2	0.75	BK/GY	2303	Knock Sensor Low Reference (2)	I	-

B70 Liftgate Close Switch (TB5)



Connector Part Information

Harness Type: Liftgate

OEM Connector: 13761652

Service Connector: 13577519

Description: 2-Way F 1.2 Multiple Contact Point Series, Sealed (BK with BK Inner Connector)

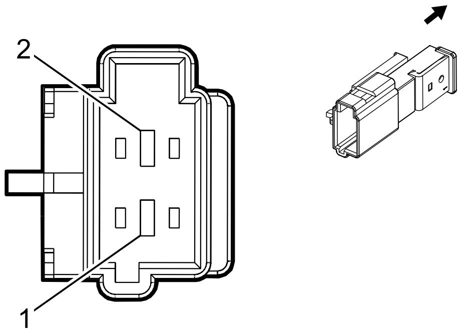
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13587557	J-35616-16 (L-GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

B70 Liftgate Close Switch (TB5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35 0.35	L-GN L-GN/RD	3033 3033	Lift Gate Shut Face Switch Signal Lift Gate Shut Face Switch Signal	I	-
2	0.35	BK/VT	5801	Lift Gate Object Sensor Low Reference	I	-

B71L Liftgate Object Sensor - Left (TB5)



Connector Part Information

Harness Type: Liftgate

OEM Connector: 13662506

Service Connector: 13574780

Description: 2-Way M 1.6 Timer Series (BK)

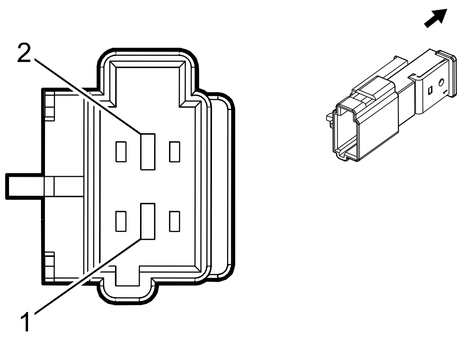
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327174	J-35616-14 (GN)	J-38125-560	964265-2	28	E	2

B71L Liftgate Object Sensor - Left (TB5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY/BK	5802	Lift Gate Object Sensor Signal	I	-
2	0.35	BK/VT	5801	Lift Gate Object Sensor Low Reference	I	-

B71R Liftgate Object Sensor - Right (TB5)



Connector Part Information

Harness Type: Liftgate

OEM Connector: 13662506

Service Connector: 13574780

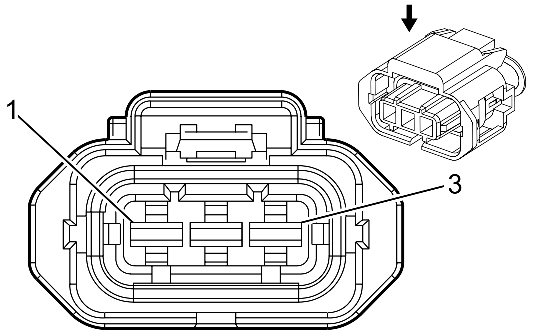
Description: 2-Way M 1.6 Timer Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327174	J-35616-14 (GN)	J-38125-560	964265-2	28	E	2

B71R Liftgate Object Sensor - Right (TB5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/BK	6126	Lift Gate Object Sensor 2 Signal	I	-
2	0.35	GY/BK	5802	Lift Gate Object Sensor Signal	I	-



Connector Part Information

Harness Type: Engine

OEM Connector: 13639747

Service Connector: 19181248

Description: 3-Way F 2.8 Junior Power Timer Series, Sealed (BK)

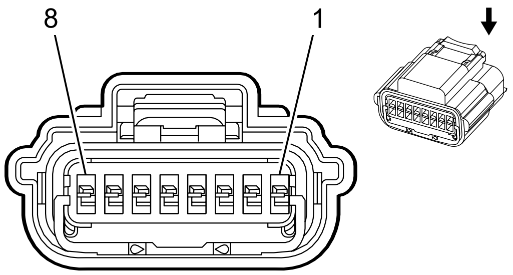
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-35 (VT)	J-38125-36	4-964286-1	16	E	1

B74 Manifold Absolute Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/RD	2704	Manifold Absolute Pressure Sensor 5 Volt Reference	I	-
2	0.5	BK/L-GN	469	Manifold Absolute Pressure Sensor Low Reference	I	-
3	0.5	L-GN/WH	432	Manifold Absolute Pressure Sensor Signal	I	-

B75C Multifunction Intake Air Sensor



Connector Part Information

Harness Type: Engine

OEM Connector: 13774439

Service Connector: 13583440

Description: 8-Way F 0.64 Series, Sealed (BK)

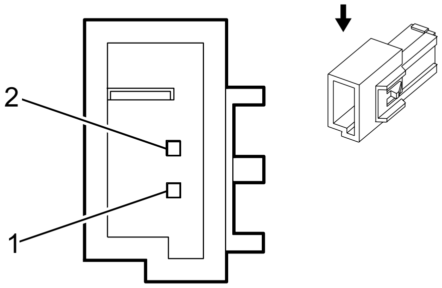
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
II	13579945	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

B75C Multifunction Intake Air Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/D-BU	6289	Induction Air Temperature Sensor Signal	I	-
2	0.5	WH/RD	3201	Throttle Inlet Absolute Pressure Sensor 5V Reference	I	-
3	0.5 0.5	WH/YE BK/PU	3202 2760	Throttle Inlet Absolute Pressure Sensor 5V Return Intake Air Temperature Sensor Low Reference	I	-
4	0.5	YE/WH	3200	Throttle Inlet Absolute Pressure Sensor Signal	I	-
5	0.5	VT/D-BU	5294	Powertrain Main Relay Fused Supply (5)	I	-
6	0.5	L-GN/WH	492	Mass Air Flow Sensor Signal	I	-
7	0.75	BK/WH	451	Signal Ground	II	-
8	0.5	GY/D-BU	7564	Humidity Sensor Signal	I	-

B77LF Radio Volume Compensator Interior Noise Microphone - Left Front (NKC)



Connector Part Information

Harness Type: Headliner

OEM Connector: 13676029

Service Connector: 19260825

Description: 2-Way M 0.64 Series (BK)

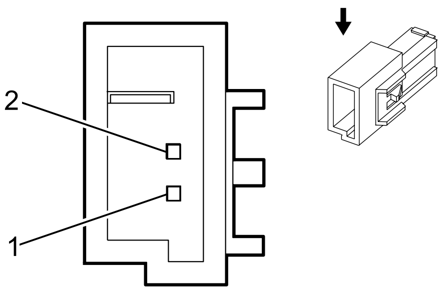
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-65B (L-BU)	J-38125-215A	SAITW-A03T-064	20	Not Available	Not Available

B77LF Radio Volume Compensator Interior Noise Microphone - Left Front (NKC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	L-GN/BK	3008	Noise Reduction Microphone #1 Return	I	-
2	0.35	L-GN/BN	3005	Noise Reduction Microphone #1 Signal	I	-
	0.35	L-GN/WH	3005	Noise Reduction Microphone #1 Signal		

B77R Radio Volume Compensator Interior Noise Microphone - Rear (NKC)



Connector Part Information

Harness Type: Headliner

OEM Connector: 13676029

Service Connector: 19260825

Description: 2-Way M 0.64 Series (BK)

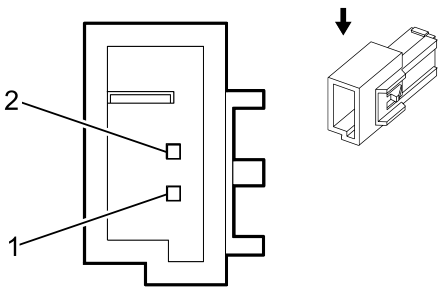
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-65B (L-BU)	J-38125-215A	SAITW-A03T-064	20	Not Available	Not Available

B77R Radio Volume Compensator Interior Noise Microphone - Rear (NKC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY/BN	3010	Noise Reduction Microphone #3 Return	I	-
2	0.35	GY/D-BU	3007	Noise Reduction Microphone #3 Signal	I	-

B77RF Radio Volume Compensator Interior Noise Microphone - Right Front (NKC)



Connector Part Information

Harness Type: Headliner

OEM Connector: 13676029

Service Connector: 19260825

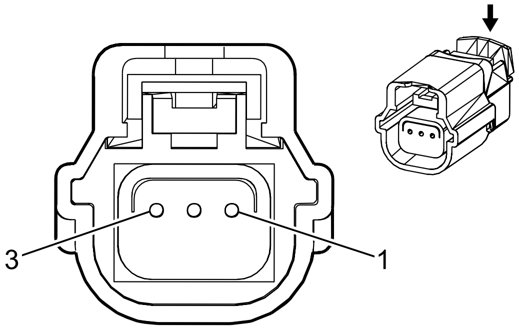
Description: 2-Way M 0.64 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-65B (L-BU)	J-38125-215A	SAITW-A03T-064	20	Not Available	Not Available

B77RF Radio Volume Compensator Interior Noise Microphone - Right Front (NKC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	D-BU/BK	3009	Noise Reduction Microphone #2 Return	I	-
2	0.35	D-BU/YE	3006	Noise Reduction Microphone #2 Signal	I	-



Connector Part Information

Harness Type: Front Bumper

OEM Connector: 13512481

Service Connector: No SDC/FSU

Description: 3-Way F 0.64 Series, Sealed (BK)

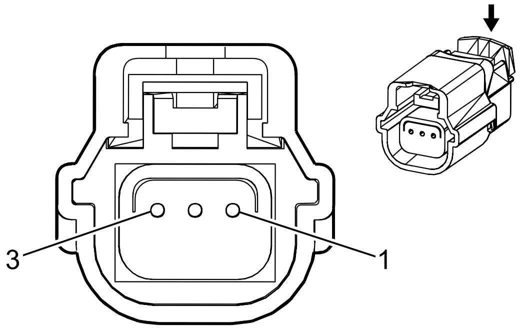
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

B78A Front Object Sensor - Left Outer (UD5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/L-GN	5213	Front Parking Left/Right/Mid Sensor	I	-
2	0.5	VT/WH	5215	Front Parking Left Corner Sensor	I	-
3	0.5	BK/D-BU	5214	Front Parking Sensor Low Reference	I	-

B78B Front Object Sensor - Right Outer (UD5)



Connector Part Information

Harness Type: Front Bumper

OEM Connector: 13512481

Service Connector: No SDC/FSU

Description: 3-Way F 0.64 Series, Sealed (BK)

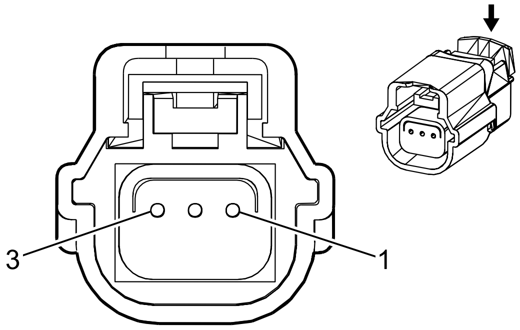
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

B78B Front Object Sensor - Right Outer (UD5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/L-GN	5213	Front Parking Left/Right/Mid Sensor	I	-
2	0.5	WH/GY	5217	Front Parking Right Corner Sensor	I	-
3	0.5	BK/D-BU	5214	Front Parking Sensor Low Reference	I	-

B78C Front Object Sensor - Left Middle (UD5)



Connector Part Information

Harness Type: Front Bumper

OEM Connector: 13512481

Service Connector: No SDC/FSU

Description: 3-Way F 0.64 Series, Sealed (BK)

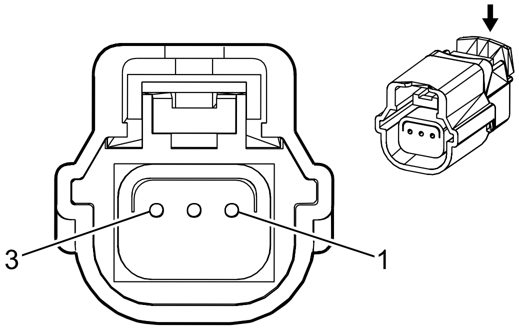
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

B78C Front Object Sensor - Left Middle (UD5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/L-GN	5213	Front Parking Left/Right/Mid Sensor	I	-
2	0.5	YE/GY	5216	Front Parking Left Mid Sensor	I	-
3	0.5	BK/D-BU	5214	Front Parking Sensor Low Reference	I	-

B78D Front Object Sensor - Right Middle (UD5)



Connector Part Information

Harness Type: Front Bumper

OEM Connector: 13512481

Service Connector: No SDC/FSU

Description: 3-Way F 0.64 Series, Sealed (BK)

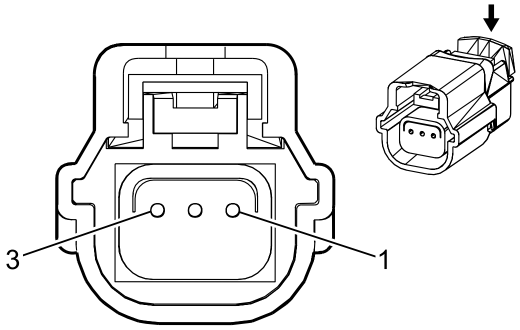
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

B78D Front Object Sensor - Right Middle (UD5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/L-GN	5213	Front Parking Left/Right/Mid Sensor	I	-
2	0.5	VT/GY	5218	Front Parking Right Mid Sensor	I	-
3	0.5	BK/D-BU	5214	Front Parking Sensor Low Reference	I	-

B78E Rear Object Sensor - Left Middle (UD5 or UD7)



Connector Part Information

Harness Type: Rear Bumper

OEM Connector: 13512481

Service Connector: No SDC/FSU

Description: 3-Way F 0.64 Series, Sealed (BK)

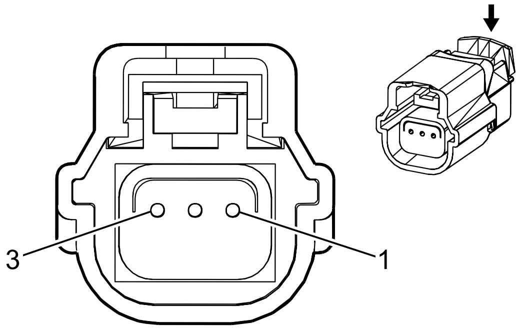
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

B78E Rear Object Sensor - Left Middle (UD5 or UD7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/WH	2374	Object Sensor Supply Voltage	I	-
2	0.5	YE/D-BU	2376	Left Rear Middle Object Sensor Signal	I	-
3	0.5	BK/GY	2379	Object Sensor Low Reference	I	-

B78F Rear Object Sensor - Right Middle (UD5 or UD7)



Connector Part Information

Harness Type: Rear Bumper

OEM Connector: 13512481

Service Connector: No SDC/FSU

Description: 3-Way F 0.64 Series, Sealed (BK)

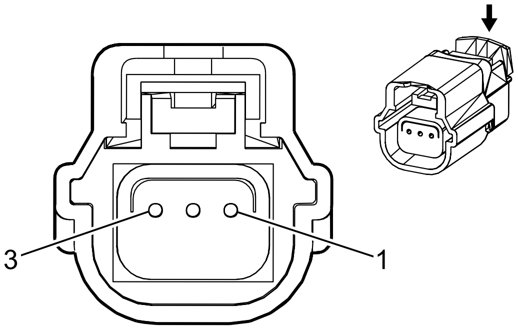
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

B78F Rear Object Sensor - Right Middle (UD5 or UD7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/WH	2374	Object Sensor Supply Voltage	I	-
2	0.5	YE/WH	2377	Right Rear Middle Object Sensor Signal	I	-
3	0.5	BK/GY	2379	Object Sensor Low Reference	I	-

B78G Rear Object Sensor - Left Outer (UD5 or UD7)



Connector Part Information

Harness Type: Rear Bumper

OEM Connector: 13512481

Service Connector: No SDC/FSU

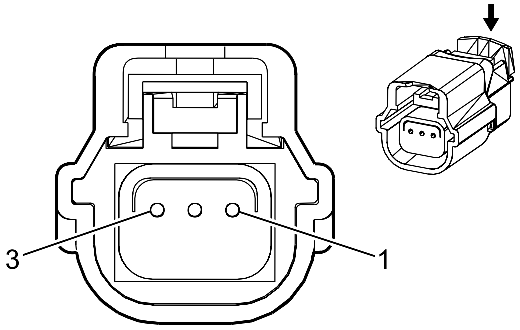
Description: 3-Way F 0.64 Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

B78G Rear Object Sensor - Left Outer (UD5 or UD7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/WH	2374	Object Sensor Supply Voltage	I	-
2	0.5	YE	2375	Left Rear Corner Object Sensor Signal	I	-
3	0.5	BK/GY	2379	Object Sensor Low Reference	I	-



Connector Part Information

Harness Type: Rear Bumper

OEM Connector: 13512481

Service Connector: No SDC/FSU

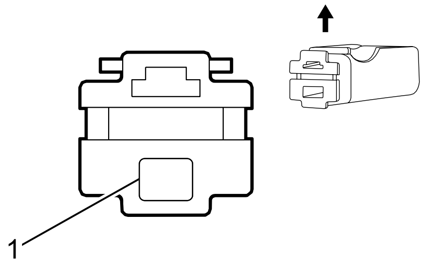
Description: 3-Way F 0.64 Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

B78H Rear Object Sensor - Right Outer (UD5 or UD7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/WH	2374	Object Sensor Supply Voltage	I	-
2	0.5	YE/VT	2378	Right Rear Corner Object Sensor Signal	I	-
3	0.5	BK/GY	2379	Object Sensor Low Reference	I	-



Connector Part Information

Harness Type: Body

OEM Connector: 13511619

Service Connector: Not Available

Description: 1-Way F 250 Series (BK)

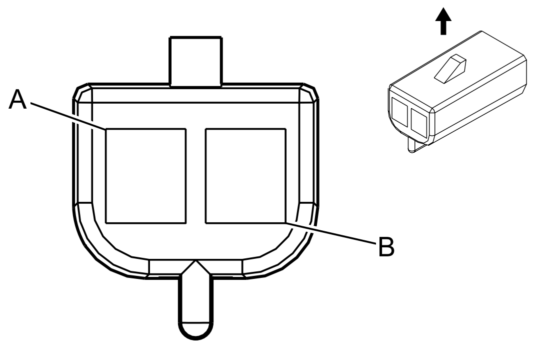
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B80 Park Brake Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	D-BU/VT	1134	Park Brake Switch Signal	I	-

B81B Park Position Switch



Connector Part Information

Harness Type: Steering Column

OEM Connector: 12059253

Service Connector: 12125690

Description: 2-Way F 150 Metri Pack Series (L-GN)

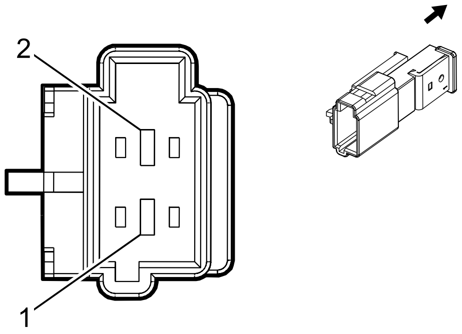
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B81B Park Position Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	WH/VT	1932	Shift Select Switch Park Signal	I	-
B	0.35	BK	1851	Ground	I	-

B87 Rearview Camera (UVC or UVH)



Connector Part Information

Harness Type: Liftgate

OEM Connector: 13662506

Service Connector: 13574780

Description: 2-Way M 1.6 Timer Series (BK)

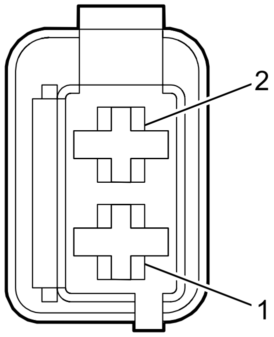
Terminal Part Information

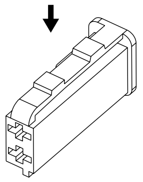
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

B87 Rearview Camera (UVC or UVH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY/YE	6972	Camera Signal #2 +	I	-
2	0.35	Bare	6974	Camera Drain Wire	I	-
3	0.35	L-GN/WH	24	Backup Lamp Supply Voltage	I	-
4	0.35	WH/D-BU	6973	Camera Signal #2	I	-
5	0.35	BK	2550	Ground	I	-
6	0.35	VT/L-GN	1739	Run/Crank Ignition 1 Voltage	I	-

B88D Seat Belt Switch - Driver





Connector Part Information

Harness Type: Driver Seat Cushion

OEM Connector: 19179871

Service Connector: 13580951

Description: 2-Way F 1.6 Timer Series (BK)

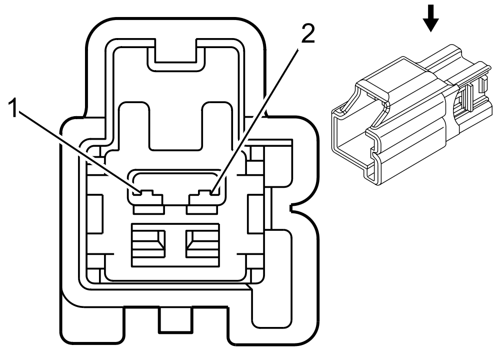
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B88D Seat Belt Switch - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK/OG	1363	Driver Seat Belt Switch Low Reference	I	-
2	0.35	OG/BN	238	Driver Seat Belt Switch Signal	I	-

B88LR Seat Belt Switch - Left Rear (ATN or ATT)



Connector Part Information

Harness Type: 2nd Row Seat Left

OEM Connector: 13580902

Service Connector: 88988503

Description: 2-Way M 1.5 Series (L-GY)

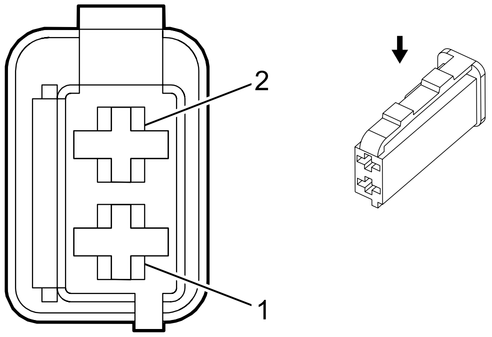
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B88LR Seat Belt Switch - Left Rear (ATN or ATT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	1150	Ground	I	-
2	0.75	GY	1150	Ground	I	-

B88P Seat Belt Switch - Passenger



Connector Part Information

Harness Type: Passenger Seat Cushion

OEM Connector: 19179871

Service Connector: 13580951

Description: 2-Way F 1.6 Timer Series (BK)

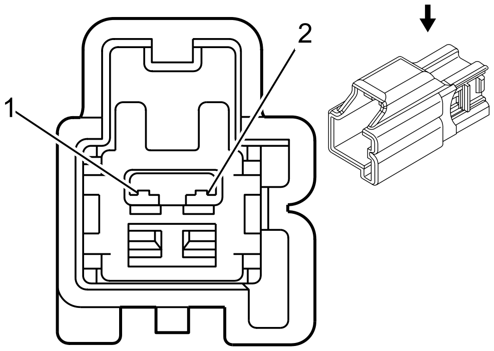
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B88P Seat Belt Switch - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK/OG	1361	Passenger Seat Belt Switch Low Reference	I	-
2	0.35	OG/VT	1362	Passenger Seat Belt Switch Signal	I	-

B88RR Seat Belt Switch - Right Rear (ATN or ATT)



Connector Part Information

Harness Type: 2nd Row Seat Right

OEM Connector: 13580902

Service Connector: 88988503

Description: 2-Way M 1.5 Series (L-GY)

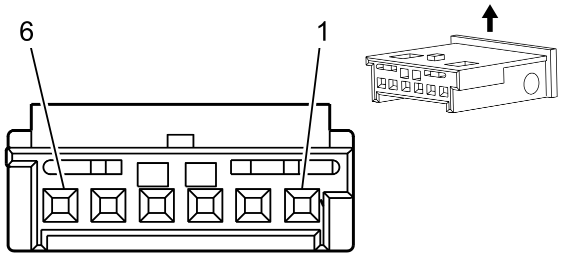
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B88RR Seat Belt Switch - Right Rear (ATN or ATT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	1250	Ground	I	-
2	0.75	GY	1250	Ground	I	-

B99 Steering Wheel Angle Sensor



Connector Part Information

Harness Type: Steering Column

OEM Connector: 1-1241370-3

Service Connector: 13505903

Description: 6 F 0.64 Micro Quadlock Series (BK)

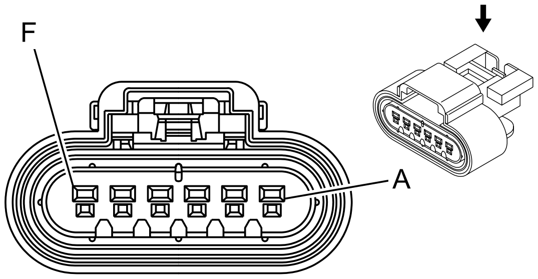
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B99 Steering Wheel Angle Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH	6106	High Speed GMLAN Serial Data (-) (2)	I	-
2	0.5	WH	6106	High Speed GMLAN Serial Data (-) (2)	I	-
3	0.5	BU/YE	6105	High Speed GMLAN Serial Data (+) (2)	I	-
4	0.5	BU/YE	6105	High Speed GMLAN Serial Data (+) (2)	I	-
5	0.35	GN/BN	2087	Combined Vehicle Inertial Sensor Supply Voltage	I	-
6	0.35	BK/WH	1851	Signal Ground	I	-

B107 Accelerator Pedal Position Sensor



Connector Part Information

Harness Type: Brake Clutch Jumper

OEM Connector: 15326830

Service Connector: 13584094

Description: 6-Way F 150 GT Series, Sealed (BK)

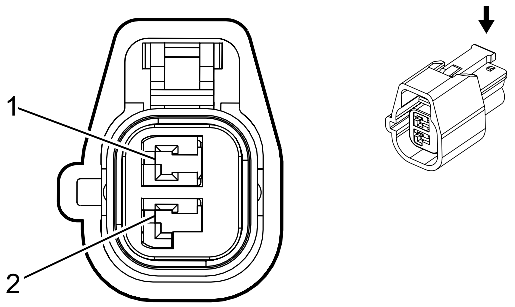
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-2A (GY)	J-38125-553	15326427	5	E	A

B107 Accelerator Pedal Position Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	BK/VT	1272	Accelerator Pedal Position Low Reference (2)	I	-
B	0.35	L-GN/WH	1162	Accelerator Pedal Position Signal (2)	I	-
C	0.35	BN/RD	1274	Accelerator Pedal Position 5 Volt Reference (2)	I	-
D	0.35	WH/RD	1164	Accelerator Pedal Position 5 Volt Reference (1)	I	-
E	0.35	YE/WH	1161	Accelerator Pedal Position Signal (1)	I	-
F	0.35	BK/D-BU	1271	Accelerator Pedal Position Low Reference (1)	I	-

B118B Windshield Washer Fluid Level Switch



Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 13577970

Service Connector: Not Available

Description: 2-Way F 1.5 Series (L-GY)

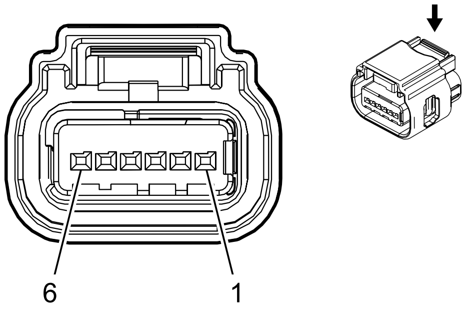
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578914	J-35616-2A (GY)	J-38125-11A	7116-4102-08	9	E	1
II	13578914	J-35616-2A (GY)	J-38125-11A	7116-4103-08	9	E	1

B118B Windshield Washer Fluid Level Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT	185	Low Washer Fluid Indicator Control	II	-
2	0.5 0.75	BK BK	150 150	Ground Ground	II	-

B119 Multi-axis Acceleration Sensor (UGN)



Connector Part Information

Harness Type: Body

OEM Connector: 13834428

Service Connector: 19299684

Description: 6-Way F 0.64 Series, Sealed (BK)

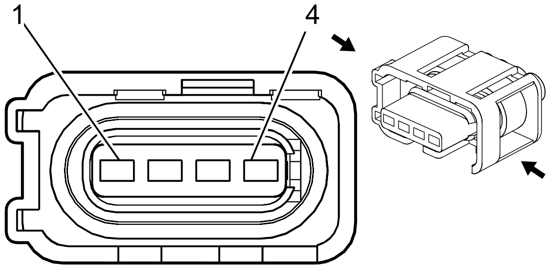
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

B119 Multi-axis Acceleration Sensor (UGN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH	6106	High Speed GMLAN Serial Data (-) (2)	I	-
2	0.5	WH	6106	High Speed GMLAN Serial Data (-) (2)	I	-
3	0.5	D-BU/YE	6105	High Speed GMLAN Serial Data (+) (2)	I	-
4	0.5	D-BU/YE	6105	High Speed GMLAN Serial Data (+) (2)	I	-
5	0.35	BK/BN	6045	Steering Angle Sensor Low Reference	I	-
6	0.5	BK/WH	2751	Signal Ground	I	-

M33 Liftgate Window Latch Assembly



Connector Part Information

Harness Type: Liftgate

OEM Connector: 15489983

Service Connector: 88988815

Description: 4-Way F Timer Micro Pack III Series, Sealed (NA)

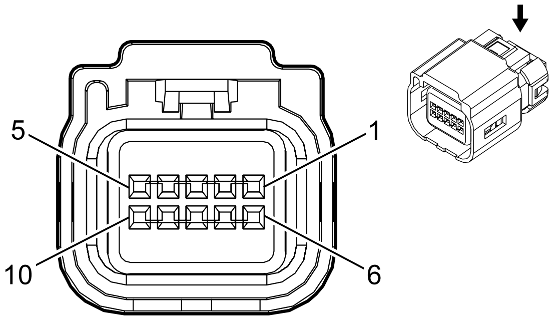
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available

M33 Liftgate Window Latch Assembly

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU/YE	6795	Lift Glass/Trunk Motor Release Control 2	I	-
2	0.5	BK	1450	Ground	I	-
3	0.35	BK	1450	Ground	I	-
4	0.35	VT/GY	1303	Lift Gate Ajar Switch Signal (1)	I	-

B137B Power Steering Shaft Torque/Position Sensor



Connector Part Information

Harness Type: Power Steering Jumper

OEM Connector: 28249221

Service Connector: Service by Harness - See Part Catalog

Description: 10-Way F 0.64 Kaizen Series, Sealed (BN)

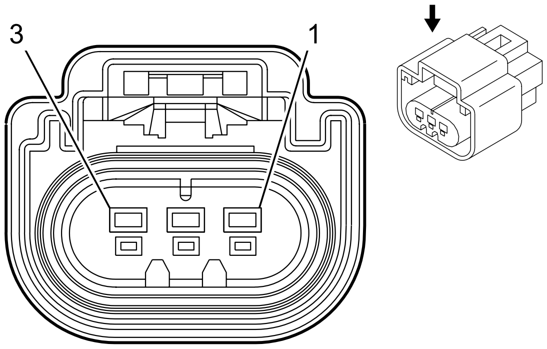
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

B137B Power Steering Shaft Torque/Position Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BU/GN	–	TRQ2 PWM Q2	I	-
2	0.5	TN	–	SDA	I	-
3	0.5	RD	–	5-Volt Reference	I	-
4	0.5	BK	–	Low Reference	I	-
5	0.5	WH	–	TRQ1 PWM Q1	I	-
6	0.5	VT	–	SCL	I	-
7	0.5	GN/BU	–	TOR IN 2	I	-
8	–	–	–	Not Occupied	–	-
9	0.5	GN	–	TOR IN 1	I	-
10	–	–	–	Not Occupied	–	-

B150 Fuel Tank Pressure Sensor



Connector Part Information

Harness Type: Chassis

OEM Connector: 13511996

Service Connector: 13580873

Description: 3-Way F 150 GT Series, Sealed (GY)

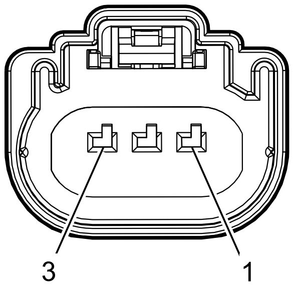
Terminal Part Information

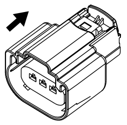
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578912	J-35616-2A (GY)	J-38125-553	12191819	8	E	1

B150 Fuel Tank Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU/WH	890	Fuel Tank Pressure Sensor Signal	I	-
2	0.5	BK/L-GN	6281	Fuel Level Sensor Low Reference	I	-
3	0.5	YE/RD	2709	Fuel Tank Pressure Sensor 5 Volt Reference	I	-

B152LF Suspension Position Sensor - Left Front (Z95)





Connector Part Information

Harness Type: Chassis

OEM Connector: 13873527

Service Connector: 19300594

Description: 3-Way F 1.5 Series, Sealed (GY)

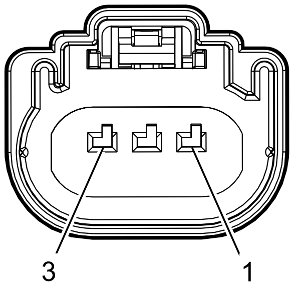
Terminal Part Information

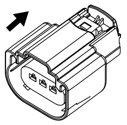
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B152LF Suspension Position Sensor - Left Front (Z95)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU/RD	1205	Left Front Strut Position Sensor Voltage Reference	I	-
2	0.5	BK/D-BU	1206	Left Front Strut Position Sensor Low Reference	I	-
3	0.5	BN/WH	1207	Left Front Strut Position Sensor Signal	I	-

B152LR Suspension Position Sensor - Left Rear (Z85 or Z95)





Connector Part Information

Harness Type: Chassis

OEM Connector: 13873527

Service Connector: 19300594

Description: 3-Way F 1.5 Series, Sealed (GY)

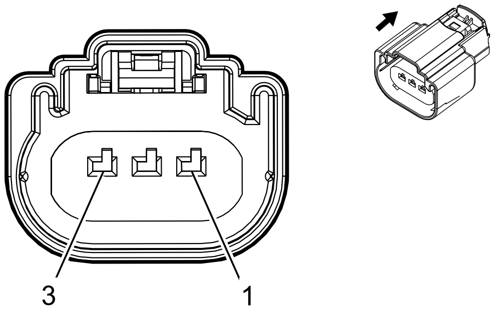
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B152LR Suspension Position Sensor - Left Rear (Z85 or Z95)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/RD	1208	Left Rear Strut Position Sensor Voltage Reference	I	-
2	0.5	BK/L-GN	1209	Left Rear Strut Position Sensor Low Reference	I	-
3	0.5	L-GN/WH	1210	Left Rear Strut Position Sensor Signal	I	-

B152RF Suspension Position Sensor - Right Front (Z95)



Connector Part Information

Harness Type: Chassis

OEM Connector: 13873527

Service Connector: 19300594

Description: 3-Way F 1.5 Series, Sealed (GY)

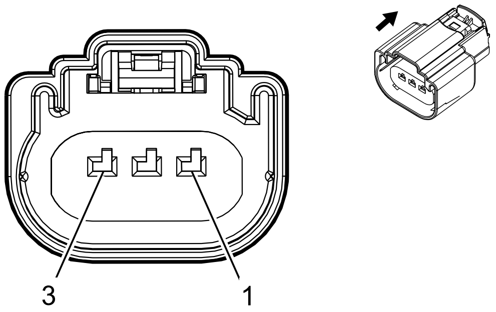
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B152RF Suspension Position Sensor - Right Front (Z95)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/RD	1211	Right Front Strut Position Sensor Voltage Reference	I	-
2	0.5	BK/GY	1212	Right Front Strut Position Sensor Low Reference	I	-
3	0.5	YE/WH	1213	Right Front Strut Position Sensor Signal	I	-

B152RR Suspension Position Sensor - Right Rear (Z85 or Z95)



Connector Part Information

Harness Type: Chassis

OEM Connector: 13873527

Service Connector: 19300594

Description: 3-Way F 1.5 Series, Sealed (GY)

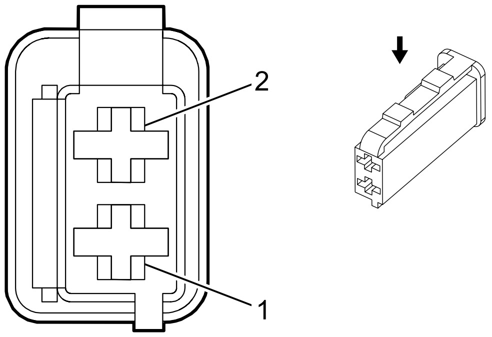
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B152RR Suspension Position Sensor - Right Rear (Z85 or Z95)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN/RD	1214	Right Rear Strut Position Sensor Voltage Reference	I	-
2	0.5	BK/YE	1215	Right Rear Strut Position Sensor Low Reference	I	-
3	0.5	L-GN/GY	1216	Right Rear Strut Position Sensor Signal	I	-

B153D Seat belt Buckle - Driver



Connector Part Information

Harness Type: Driver Seat Cushion

OEM Connector: 19179871

Service Connector: 13580951

Description: 2-Way F 1.6 Timer Series (BK)

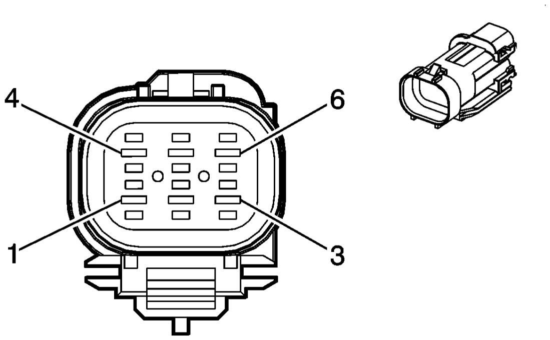
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B153D Seat belt Buckle - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35 0.35	BK/OG BK/BK	1363 1363	Driver Seat Belt Switch Low Reference Driver Seat Belt Switch Low Reference	I	-
2	0.35 0.35	OG/BN OG/OG	238 238	Driver Seat Belt Switch Signal Driver Seat Belt Switch Signal	I	-

B153LR Seat Belt Buckle - Left Rear (ATN or ATT)



Connector Part Information

Harness Type: 2nd Row Seat Left

OEM Connector: 1452324-1

Service Connector: 93185233

Description: 6-Way M 2.8 Series, Sealed (BK)

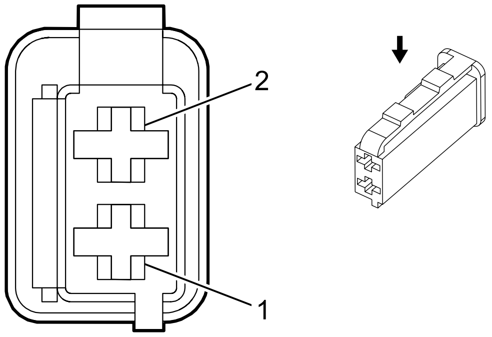
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B153LR Seat Belt Buckle - Left Rear (ATN or ATT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	1150	Ground	I	-
2	0.75	GY	1150	Ground	I	-
3-6	-	-	-	Not Occupied	-	-

B153P Seat Belt Buckle - Passenger



Connector Part Information

Harness Type: Passenger Seat

OEM Connector: 19179871

Service Connector: 13580951

Description: 2-Way F 1.6 Timer Series (BK)

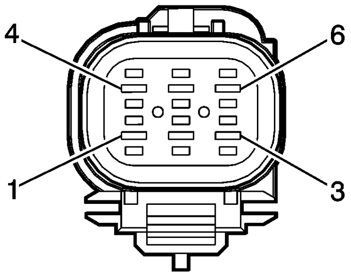
Terminal Part Information

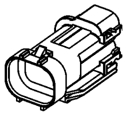
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B153P Seat Belt Buckle - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35 0.35	BK/OG BK/BK	1361 1361	Passenger Seat Belt Switch Low Reference Passenger Seat Belt Switch Low Reference	I	-
2	0.35 0.35	OG/VT OG/OG	1362 1362	Passenger Seat Belt Switch Signal Passenger Seat Belt Switch Signal	I	-

B153RR Seat Belt Buckle - Right Rear (ATN or ATT)





Connector Part Information

Harness Type: 2nd Row Seat Right

OEM Connector: 1452324-1

Service Connector: 93185233

Description: 6-Way M 2.8 Series, Sealed (BK)

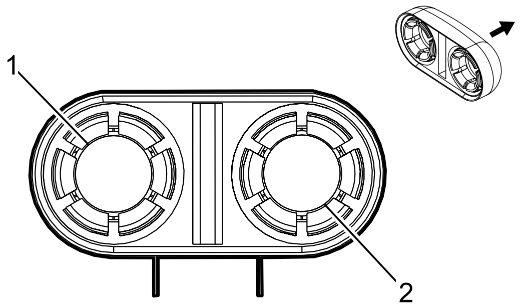
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B153RR Seat Belt Buckle - Right Rear (ATN or ATT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	1250	Ground	I	-
2	0.75	GY	1250	Ground	I	-
3-6	-	-	-	Not Occupied	-	-

B159L Glass Breakage Sensor - Left (UTT)



Connector Part Information

Harness Type: Body

OEM Connector: 13984643

Service Connector: Not Available

Description: 2-Way F Snap Type (BK)

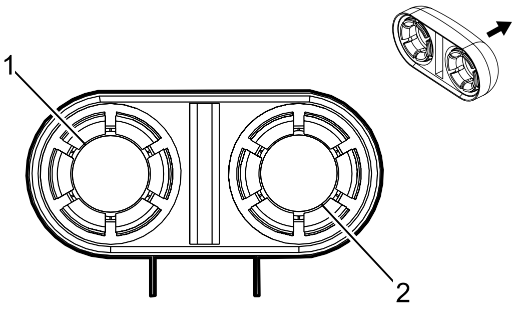
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	Not Available	J-35616-19 (BK)	J-38125-553	7114-4020	10	E	C
III	13575606	J-35616-19 (BK)	J-38125-553	7114-4021	10	E	A

B159L Glass Breakage Sensor - Left (UTT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/VT	293	Rear Defog Element Supply Voltage	I	-
2	0.5	D-BU/VT	7597	Glass Breakage Sensor Signal	I	-

B159R Glass Breakage Sensor - Right (UTT)



Connector Part Information

Harness Type: Body

OEM Connector: 13984643

Service Connector: Not Available

Description: 2-Way F Snap Type (BK)

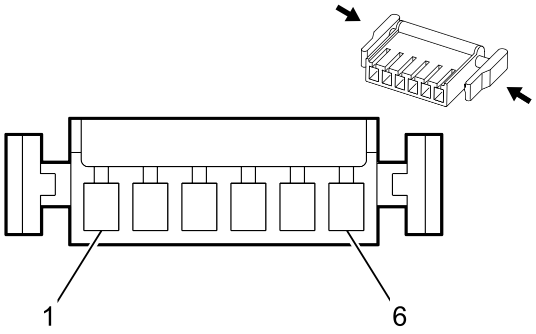
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	Not Available	J-35616-19 (BK)	J-38125-553	7114-4020	10	E	C
III	13575606	J-35616-19 (BK)	J-38125-553	7114-4021	10	E	A

B159R Glass Breakage Sensor - Right (UTT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU/VT	7597	Glass Breakage Sensor Signal	I	-
2	0.5	VT/D-BU	7598	Glass Breakage Sensor Signal 2	I	-

B165 Content Theft Deterrent Sensor Module (UTT)



Connector Part Information

Harness Type: Overhead Console

OEM Connector: 13726957

Service Connector: 13576539

Description: 6-Way F 0.64 Micro Quadlock Series (BK)

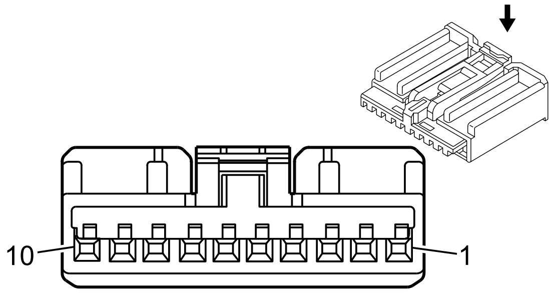
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327114	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	H	H
II	13327114	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	J	J

B165 Content Theft Deterrent Sensor Module (UTT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	VT/BK	5068	Intrusion Sensor Switch Disable Signal	I	-
2	0.35	YE/D-BU	3278	Intrusion Sensor Switch LED Control	I	-
3	0.35	RD/D-BU	4540	Battery Positive Voltage	I	-
4	0.5	L-GN/BN	6132	Linear Interconnect Network Bus 1	II	-
5	0.35	BK	1050	Ground	I	-
6	-	-	-	Not Occupied	-	-

B174 Frontview Camera (UFL)



Connector Part Information

Harness Type: Overhead Console

OEM Connector: 13574592

Service Connector: 13576634

Description: 10-Way F 0.64 Kaizen Series (BK)

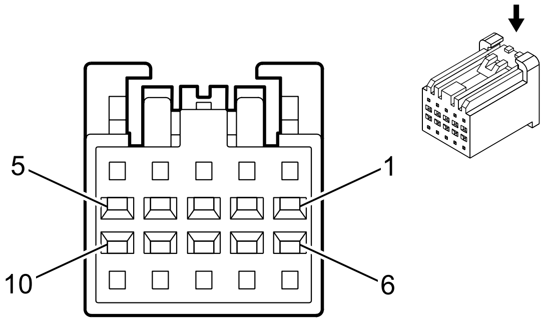
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

B174 Frontview Camera (UFL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK	1050	Ground	I	-
2	-	-	-	Not Occupied	-	-
3	0.5	RD/L-GN	3140	Battery Positive Voltage	I	-
4	0.35	WH	3152	Lane Departure Warning Indicator Control	I	-
5	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	I	-
6	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	I	-
7	0.35	L-GN	5060	Low Speed GMLAN Serial Data	I	-
8	-	-	-	Not Occupied	-	-
9	0.5	WH/D-BU	5986	Serial Data Communication Enable	I	-
10	0.35	GY/WH	3153	Lane Departure Warning Disable Switch Signal	I	-

B174 Frontview Camera (UGN with Z75)



Connector Part Information

Harness Type: Overhead Console

OEM Connector: 13876499

Service Connector: 19299775

Description: 10-Way F 0.64 Kaizen Series (GY)

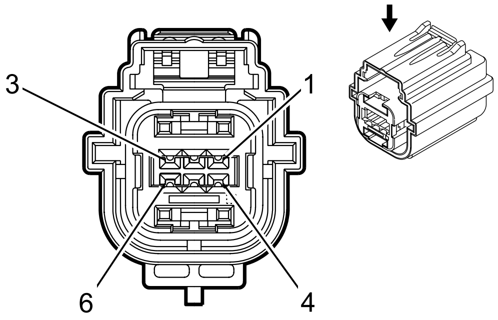
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

B174 Frontview Camera (UGN with Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.35	RD/L-GN	3140	Battery Positive Voltage	I	-
3	0.5	D-BU/VT	3813	High Speed GMLAN Serial Data (+) (4)	I	-
4	0.5	WH	3811	High Speed GMLAN Serial Data (-) (4)	I	-
5	0.5	BK	1050	Ground	I	-
6-7	-	-	-	Not Occupied	-	-
8	0.35	D-BU/VT	3813	High Speed GMLAN Serial Data (+) (4)	I	-
9	0.35	WH	3811	High Speed GMLAN Serial Data (-) (4)	I	-
10	0.35	GY/VT	3808	Front Object Sensor Supply Voltage (2)	I	-

B174 Frontview Camera (UVH)



Connector Part Information

Harness Type: Front Bumper

OEM Connector: 13629704

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 0.64 Series, Sealed (GY)

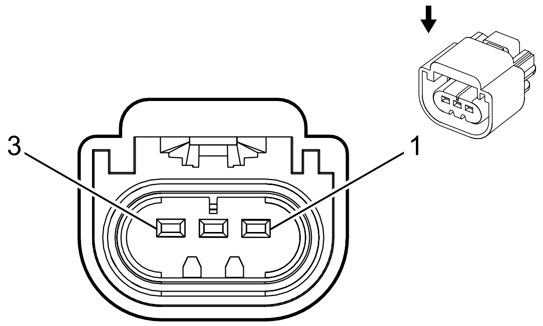
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

B174 Frontview Camera (UVH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	D-BU	3373	Auxiliary Video High Signal (2)	I	-
2	0.35	BK	3371	Video Drain Wire (2)	I	-
3	0.35	WH	9002		I	-
4	0.35	GY	3372	Auxiliary Video Low Signal (2)	I	-
5	0.35	BK/WH	2551	Signal Ground	I	-
6	0.35	WH/BN	6201	Camera Supply Voltage	I	-

B198 Fuel Composition Sensor



Connector Part Information

Harness Type: Chassis

OEM Connector: 13511132

Service Connector: 19301582

Description: 3-Way F 150 GT Series, Sealed (BN)

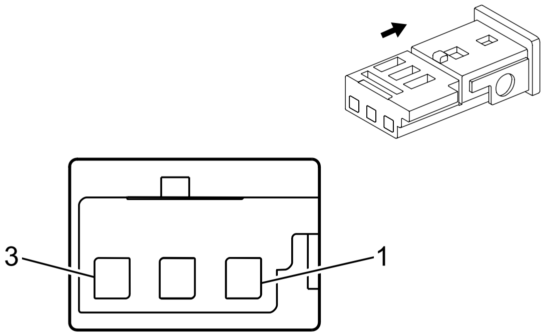
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578912	J-35616-2A (GY)	J-38125-553	12191819	8	E	1

B198 Fuel Composition Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/D-BU	5294	Powertrain Main Relay Fused Supply (5)	I	-
2	0.5	BK	2150	Ground	I	-
3	0.5	WH	1579	Fuel Temperature/Composition Signal	I	-

B200 Rain Sensor Module



Connector Part Information

Harness Type: Rain Sensor Jumper

OEM Connector: 13153088

Service Connector: 13314078

Description: 3-Way F 0.64 MQS Series, Sealed (BK)

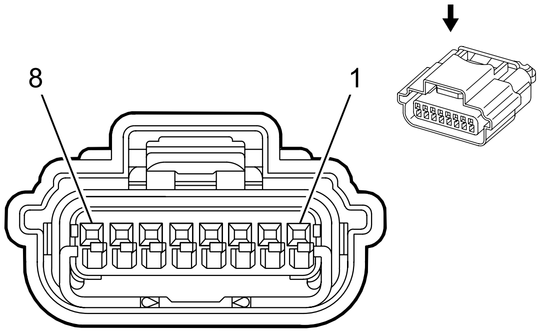
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B200 Rain Sensor Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	RD/BU	840	Battery Positive Voltage	I	-
2	0.5	D-GN/BN	6132	Linear Interconnect Network Bus 1	I	-
3	0.35	BK	1050	Ground	I	-

B218L Side Object Sensor Module - Left (UKC)



Connector Part Information

Harness Type: Rear Bumper

OEM Connector: 13925108

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 0.64 Series, Sealed (BK)

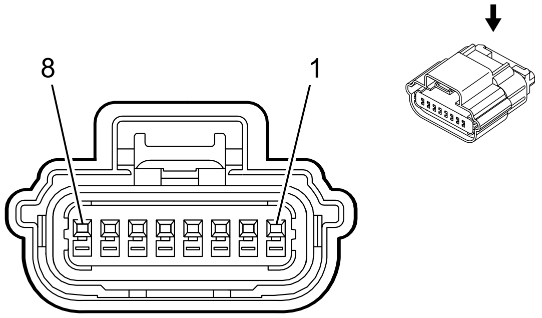
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

B218L Side Object Sensor Module - Left (UKC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35 0.5	L-GN L-GN	5060 5060	Low Speed GMLAN Serial Data Low Speed GMLAN Serial Data	I	-
2	-	-	-	Not Occupied	-	-
3	0.35 0.5	YE/VT YE/VT	3830 3830	Serial Data Communication Enable 2 Serial Data Communication Enable 2	I	-
4	0.5 0.5	BU/WH D-BU/WH	3812 3812	High Speed GMLAN Serial Data (+) (5) High Speed GMLAN Serial Data (+) (5)	I	-
5	0.5	D-BU/YE	3810	High Speed GMLAN Serial Data (-) (5)	I	-
6	-	-	-	Not Occupied	-	-
7	0.5	BK	1450	Ground	I	-
8	0.5	RD/L-GN	3140	Battery Positive Voltage	I	-

B218R Side Object Sensor Module - Right (UKC)



Connector Part Information

Harness Type: Rear Bumper

OEM Connector: 13925109

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 0.64 Series, Sealed (BK)

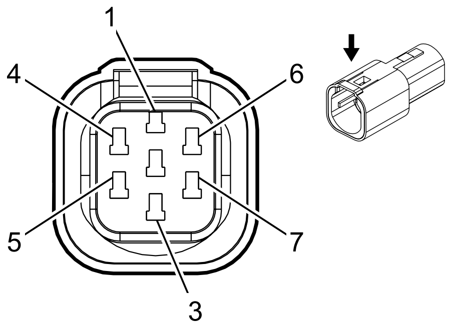
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

B218R Side Object Sensor Module - Right (UKC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35 0.5	GY GY	5861 5861	Passenger Side Object Detection LED Signal (1) Passenger Side Object Detection LED Signal (1)	I	-
2	0.35 0.5	GY/YE GY/YE	5853 5853	Driver Side Object Detection LED Signal (1) Driver Side Object Detection LED Signal (1)	I	-
3	0.35 0.5	YE/VT YE/VT	3830 3830	Serial Data Communication Enable 2 Serial Data Communication Enable 2	I	-
4	0.5 0.5	BU/WH D-BU/WH	3812 3812	High Speed GMLAN Serial Data (+) (5) High Speed GMLAN Serial Data (+) (5)	I	-
5	0.5	D-BU/YE	3810	High Speed GMLAN Serial Data (-) (5)	I	-
6	-	-	-	Not Occupied	-	-
7	0.5	BK	1450	Ground	I	-
8	0.5	RD/L-GN	3140	Battery Positive Voltage	I	-

B225L Sideview Camera - Left (UVH)



Connector Part Information

Harness Type: OSRVM Camera Jumper — Driver

OEM Connector: 13576424

Service Connector: Service by Harness — See Part Catalog

Description: 7-Way M 0.8 Series, Sealed (L-GN)

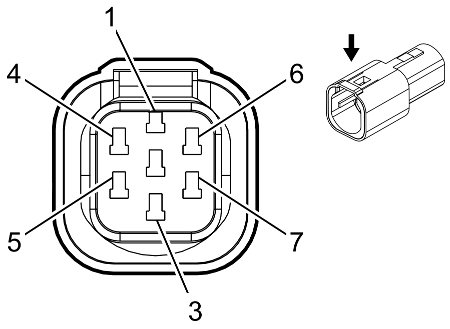
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B225L Sideview Camera - Left (UVH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/GN	2628	Left Side Vision Camera Video Signal (+)	I	-
2	0.5	BK	2624	Left Side Vision Camera Video Drain Wire	I	-
3	-	-	-	Not Occupied	-	-
4	0.5	GY/GN	2625	Left Side Vision Camera Video Signal (-)	I	-
5	0.5	BK/WH	2551	Ground	I	-
6	0.5	WH/BN	6201	Camera Control	I	-
7	-	-	-	Not Occupied	-	-

B225R Sideview Camera - Right (UVH)



Connector Part Information

Harness Type: OSRVM Camera Jumper — Passenger

OEM Connector: 13576424

Service Connector: Service by Harness — See Part Catalog

Description: 7-Way M 0.8 Series, Sealed (L-GN)

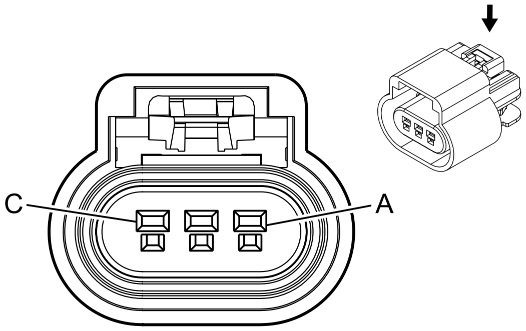
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B225R Sideview Camera - Right (UVH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/BU	2627	Right Side Vision Camera Video Signal (+)	I	-
2	0.5	BK	2623	Right Side Vision Camera Video Drain Wire	I	-
3	-	-	-	Not Occupied	-	-
4	0.5	GY/BU	2626	Right Side Vision Camera Video Signal (-)	I	-
5	0.5	BK/WH	2551	Ground	I	-
6	0.5	WH/BN	6201	Camera Control	I	-
7	-	-	-	Not Occupied	-	-

B227 Gear Position Sensor (NP0 or NQH)



Connector Part Information

Harness Type: Engine

OEM Connector: 15326808

Service Connector: SEE NOTE

Description: 3-Way F 150 GT Series, Sealed (BK)

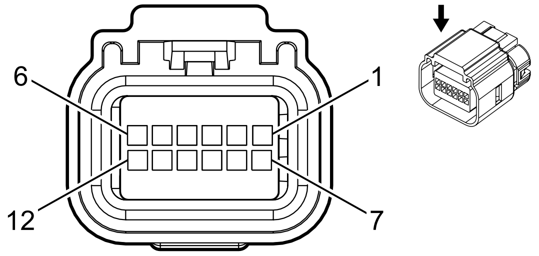
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578912	J-35616-2A (GY)	J-38125-553	12191819	8	E	1

B227 Gear Position Sensor (NP0 or NQH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	YE/BK	7478	Rotary Position Sensor Return	I	-
B	0.5	WH/RD	7477	Rotary Position Sensor Supply 5V	I	-
C	0.5	WH/L-GN	7479	Rotary Position Sensor Signal	I	-

B233B Radar Sensor Module - Long Range (UVZ or UGN with Z75)



Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 13833301

Service Connector: 19299773

Description: 12-Way F 1.5 Series, Sealed (BK)

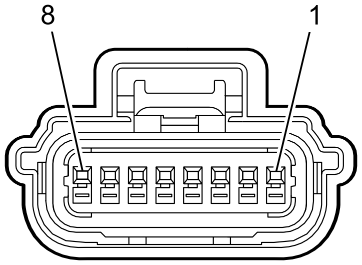
Terminal Part Information

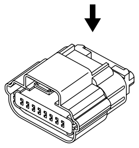
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-22 (RD)	J-38125-11A	Not Available	Not Available	Not Available	Not Available

B233B Radar Sensor Module - Long Range (UVZ or UGN with Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.5	WH	3811	High Speed GMLAN Serial Data (-) (4)	I	-
3	0.5	D-BU/VT	3813	High Speed GMLAN Serial Data (+) (4)	I	-
4	0.5	WH	3811	High Speed GMLAN Serial Data (-) (4)	I	-
5	0.5	D-BU/VT	3813	High Speed GMLAN Serial Data (+) (4)	I	-
6	0.5	GY/VT	3808	Front Object Sensor Supply Voltage (2)	I	-
7	0.5	BK	250	Ground	I	-
8-9	-	-	-	Not Occupied	-	-
10	0.5	WH	3811	High Speed GMLAN Serial Data (-) (4)	I	-
11	0.5	D-BU/VT	3813	High Speed GMLAN Serial Data (+) (4)	I	-
12	-	-	-	Not Occupied	-	-

B233LF Radar Sensor Module - Short Range Left Front (UVZ)





Connector Part Information

Harness Type: Front Bumper

OEM Connector: 13916067

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 0.64 Series, Sealed (BK)

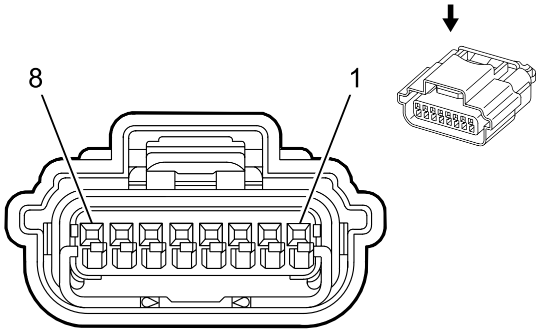
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

B233LF Radar Sensor Module - Short Range Left Front (UVZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH	3811	High Speed GMLAN Serial Data (-) (4)	I	-
2	0.5	D-BU/VT	3813	High Speed GMLAN Serial Data (+) (4)	I	-
3	-	-	-	Not Occupied	-	-
4	0.5	BK	250	Ground	I	-
5	0.5	GY/VT	3808	Front Object Sensor Supply Voltage (2)	I	-
6	0.5	WH	3811	High Speed GMLAN Serial Data (-) (4)	I	-
7	0.5	D-BU/VT	3813	High Speed GMLAN Serial Data (+) (4)	I	-
8	0.5	BK	250	Ground	I	-

B233LR Radar Sensor Module - Short Range Left Rear (UVZ)



Connector Part Information

Harness Type: Rear Bumper

OEM Connector: 13912371

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 0.64 Series, Sealed (BK)

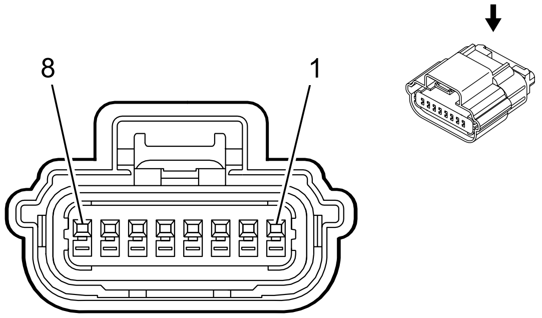
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

B233LR Radar Sensor Module - Short Range Left Rear (UVZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH	3811	High Speed GMLAN Serial Data (-) (4)	I	-
2	0.5	D-BU/VT	3813	High Speed GMLAN Serial Data (+) (4)	I	-
3-4	-	-	-	Not Occupied	-	-
5	0.5	BN/VT	3809	Front Object Sensor Supply Voltage (1)	I	-
6	0.5	WH	3811	High Speed GMLAN Serial Data (-) (4)	I	-
7	0.5	D-BU/VT	3813	High Speed GMLAN Serial Data (+) (4)	I	-
8	0.5	BK	1450	Ground	I	-

B233RF Radar Sensor Module - Short Range Right Front (UVZ)



Connector Part Information

Harness Type: Front Bumper

OEM Connector: 13912372

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 0.64 Series, Sealed (BK)

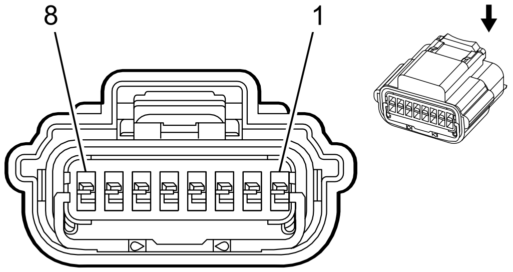
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

B233RF Radar Sensor Module - Short Range Right Front (UVZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH	3811	High Speed GMLAN Serial Data (-) (4)	I	-
2	0.5	D-BU/VT	3813	High Speed GMLAN Serial Data (+) (4)	I	-
3	0.5	BK	250	Ground	I	-
4	-	-	-	Not Occupied	-	-
5	0.5	GY/VT	3808	Front Object Sensor Supply Voltage (2)	I	-
6	0.5	WH	3811	High Speed GMLAN Serial Data (-) (4)	I	-
7	0.5	D-BU/VT	3813	High Speed GMLAN Serial Data (+) (4)	I	-
8	0.5	BK	250	Ground	I	-

B233RR Radar Sensor Module - Short Range Right Rear (UVZ)



Connector Part Information

Harness Type: Rear Bumper

OEM Connector: 13774439

Service Connector: 13583440

Description: 8-Way F 0.64 Series, Sealed (BK)

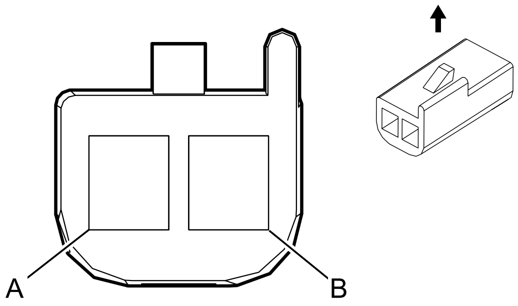
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

B233RR Radar Sensor Module - Short Range Right Rear (UVZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH	3811	High Speed GMLAN Serial Data (-) (4)	I	-
2	0.5	D-BU/VT	3813	High Speed GMLAN Serial Data (+) (4)	I	-
3	0.5	BK	1450	Ground	I	-
4	0.5	BK	1450	Ground	I	-
5	0.5	BN/VT	3809	Front Object Sensor Supply Voltage (1)	I	-
6	0.5	WH	3811	High Speed GMLAN Serial Data (-) (4)	I	-
7	0.5	D-BU/VT	3813	High Speed GMLAN Serial Data (+) (4)	I	-
8	0.5	BK	1450	Ground	I	-

E1A Accent Lamp - Driver Seat (A95 or AN3)



Connector Part Information

Harness Type: Driver Seat Cushion

OEM Connector: 12047662

Service Connector: 12085535

Description: 2-Way F 150 Metri Pack Series (BK)

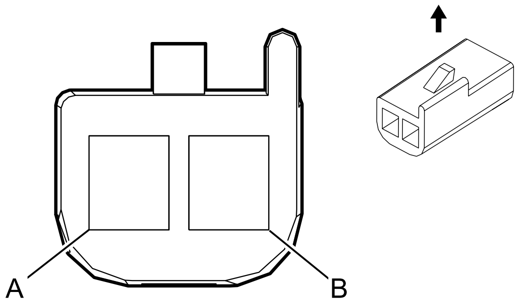
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-14 (GN)	J-38125-12A	15326030	2	E	C

E1A Accent Lamp - Driver Seat (A95 or AN3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35 0.35	GY GY/GY	157 157	Interior Lamp Control Interior Lamp Control	I	-
B	0.35 0.35	BK BK/BK	1150 1150	Ground Ground	I	-

E1AA Floor Accent Lamp - Left Front



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12047662

Service Connector: 12085535

Description: 2-Way F 150 Metri Pack Series (BK)

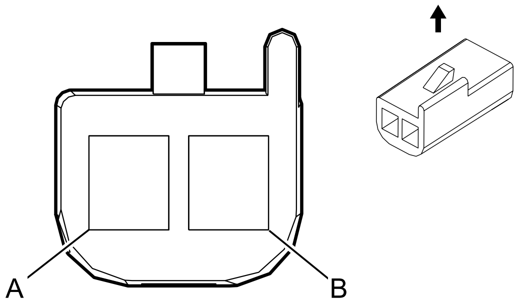
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-14 (GN)	J-38125-12A	15326030	2	E	C

E1AA Floor Accent Lamp - Left Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5 0.5	GY WH/YE	157 7557	Interior Lamp Control LED Ambient Lighting Control 1	I	-
B	0.35	BK/WH	1851	Signal Ground	I	-

E1AB Floor Accent Lamp - Right Front



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12047662

Service Connector: 12085535

Description: 2-Way F 150 Metri Pack Series (BK)

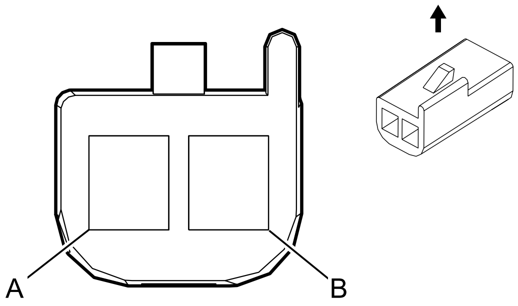
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-14 (GN)	J-38125-12A	15326030	2	E	C
II	Not Available	J-35616-14 (GN)	J-38125-12A	15326030	2	E	A

E1AB Floor Accent Lamp - Right Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5 0.5	GY WH/YE	157 7557	Interior Lamp Control LED Ambient Lighting Control 1	I	-
B	0.75 0.35	BK BK	1050 1050	Ground Ground	II	-

E1B Accent Lamp - Passenger Seat (A95 or AN3)



Connector Part Information

Harness Type: Passenger Seat

OEM Connector: 12047662

Service Connector: 12085535

Description: 2-Way F 150 Metri Pack Series (BK)

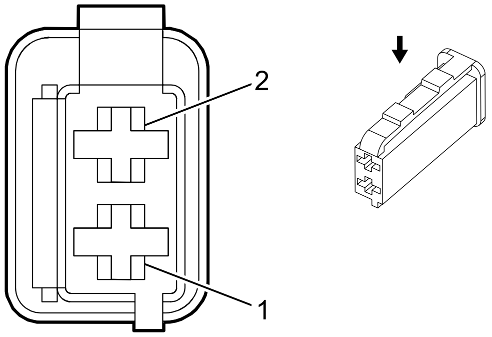
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-14 (GN)	J-38125-12A	15326030	2	E	C

E1B Accent Lamp - Passenger Seat (A95 or AN3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35 0.35	GY GY/GY	157 157	Interior Lamp Control Interior Lamp Control	I	-
B	0.35 0.35	BK BK/BK	1250 1250	Ground Ground	I	-

E1C Accent Lamp - Driver Door Handle



Connector Part Information

Harness Type: Driver Door Trim

OEM Connector: 13670097

Service Connector: 13580951

Description: 2-Way F 1.6 Timer Series (BK)

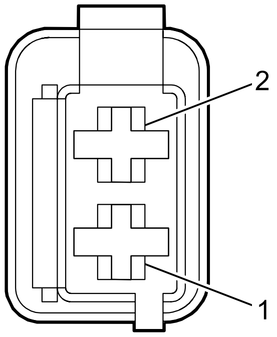
Terminal Part Information

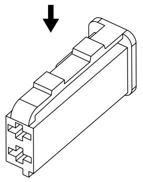
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575760	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1

E1C Accent Lamp - Driver Door Handle

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/YE	7557	LED Ambient Lighting Control 1	I	-
2	0.35	BK	1150	Ground	I	-

E1D Accent Lamp - Driver Door (Z75)





Connector Part Information

Harness Type: Driver Door Trim

OEM Connector: 13670097

Service Connector: 13580951

Description: 2-Way F 1.6 Timer Series (BK)

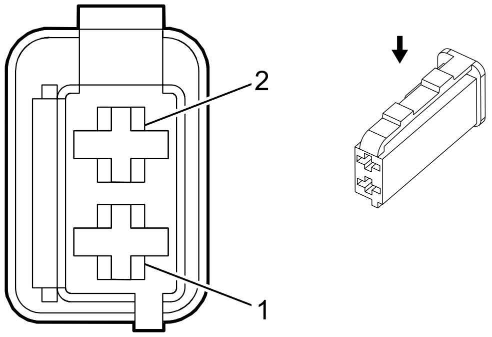
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575760	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1

E1D Accent Lamp - Driver Door (Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/YE	7557	LED Ambient Lighting Control 1	I	-
2	0.35	BK	1150	Ground	I	-

E1E Accent Lamp - Left Rear Door Handle



Connector Part Information

Harness Type: Left Rear Door

OEM Connector: 13670097

Service Connector: 13580951

Description: 2-Way F 1.6 Timer Series (BK)

Harness Type: Left Rear Door Trim

OEM Connector: 13670097

Service Connector: 13580951

Description: 2-Way F 1.6 Timer Series (BK)

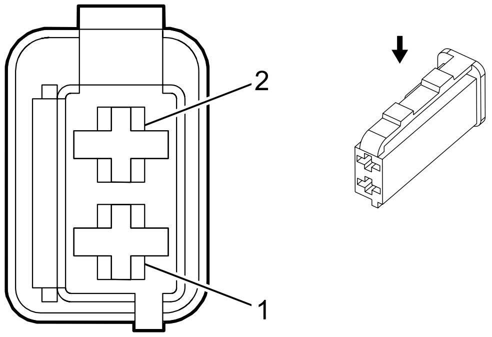
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575537	J-35616-14 (GN)	J-38125-560	962943-5	16	Not Available	Not Available
II	13575537	J-35616-14 (GN)	J-38125-560	962943-5	16	E	A

E1E Accent Lamp - Left Rear Door Handle

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/YE	7557	LED Ambient Lighting Control 1	I	-
2	0.5 0.35	BK BK	1150 1150	Ground Ground	II	-

E1F Accent Lamp - Right Rear Door Handle



Connector Part Information

Harness Type: Right Rear Door Trim
OEM Connector: 13670097
Service Connector: 13580951
Description: 2-Way F 1.6 Timer Series (BK)
Harness Type: Right Rear Door
OEM Connector: 13670097
Service Connector: 13580951
Description: 2-Way F 1.6 Timer Series (BK)

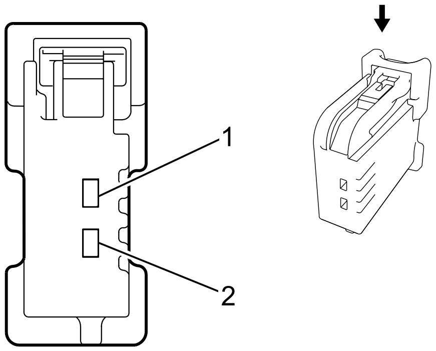
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575537	J-35616-14 (GN)	J-38125-560	962943-5	16	Not Available	Not Available
II	13575760	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1
III	13575537	J-35616-14 (GN)	J-38125-560	962943-5	16	E	A

E1F Accent Lamp - Right Rear Door Handle

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/YE	7557	LED Ambient Lighting Control 1	I	-
2	0.35 0.5	BK BK	1250 1250	Ground Ground	I	-

E38 Flood Lamp - Center Console



Connector Part Information

Harness Type: Overhead Console

OEM Connector: 13595207

Service Connector: 13584097

Description: 2-Way F 0.64, 1.5 Series (BK)

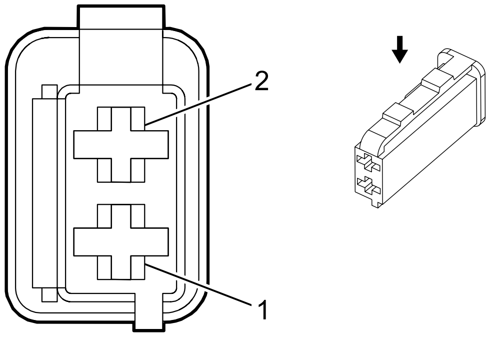
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327109	J-35616-2A (GY)	J-38125-553	12191812	19	E	C
II	13575790	J-35616-2A (GY)	J-38125-553	15496302	5	E	A

E38 Flood Lamp - Center Console

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	VT/L-GN	7558	LED Ambient Lighting Control 2	I	-
2	0.35	BK	1050	Ground	I	-

E1LR Accent Lamp - Left Rear Door (Z75)



Connector Part Information

Harness Type: Left Rear Door Trim

OEM Connector: 13670097

Service Connector: 13580951

Description: 2-Way F 1.6 Timer Series (BK)

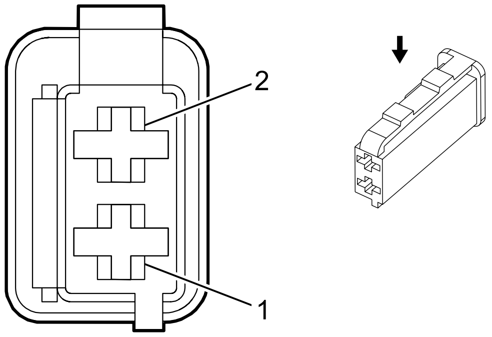
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575537	J-35616-14 (GN)	J-38125-560	962943-5	16	Not Available	Not Available

E1LR Accent Lamp - Left Rear Door (Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/YE	7557	LED Ambient Lighting Control 1	I	-
2	0.35	BK	1150	Ground	I	-

E1M Accent Lamp - Passenger Door Handle



Connector Part Information

Harness Type: Passenger Door

OEM Connector: 13670097

Service Connector: 13580951

Description: 2-Way F 1.6 Timer Series (BK)

Harness Type: Passenger Door Trim

OEM Connector: 13670097

Service Connector: 13580951

Description: 2-Way F 1.6 Timer Series (BK)

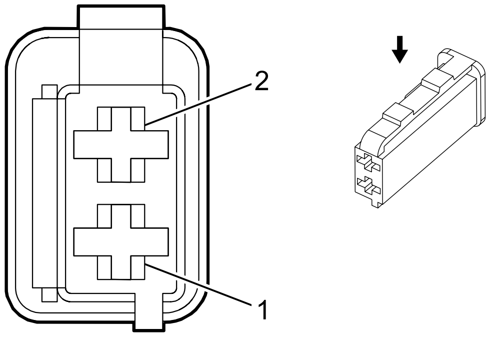
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575537	J-35616-14 (GN)	J-38125-560	962943-5	16	Not Available	Not Available
II	13575760	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1

E1M Accent Lamp - Passenger Door Handle

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/YE	7557	LED Ambient Lighting Control 1	I	-
2	0.35	BK	1250	Ground	I	-

E1P Accent Lamp - Passenger Door (Z75)



Connector Part Information

Harness Type: Passenger Door

OEM Connector: 13670097

Service Connector: 13580951

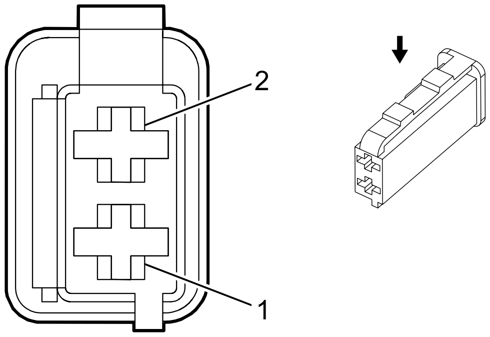
Description: 2-Way F 1.6 Timer Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575537	J-35616-14 (GN)	J-38125-560	962943-5	16	Not Available	Not Available

E1P Accent Lamp - Passenger Door (Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/YE	7557	LED Ambient Lighting Control 1	I	-
2	0.35	BK	1250	Ground	I	-



Connector Part Information

Harness Type: Right Rear Door Trim

OEM Connector: 13670097

Service Connector: 13580951

Description: 2-Way F 1.6 Timer Series (BK)

Harness Type: Right Rear Door

OEM Connector: 13670097

Service Connector: 13580951

Description: 2-Way F 1.6 Timer Series (BK)

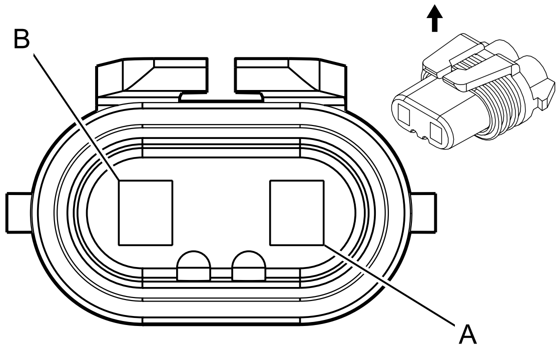
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575537	J-35616-14 (GN)	J-38125-560	962943-5	16	Not Available	Not Available

E1RR Accent Lamp - Right Rear Door (Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/YE	7557	LED Ambient Lighting Control 1	I	-
2	0.35	BK	1250	Ground	I	-

E4E Headlamp - Left High Beam (X88 or Z88)



Connector Part Information

Harness Type: Front Headlamp - Left

OEM Connector: 12059183

Service Connector: 12101898

Description: 2-Way F 2.0 Pitch Series (NA)

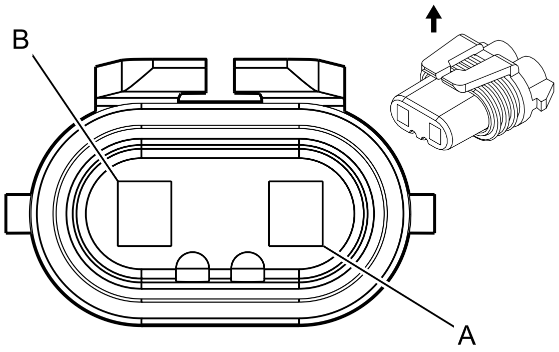
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E4E Headlamp - Left High Beam (X88 or Z88)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	WH	711	Left Headlamp High Beam Supply Voltage	I	X88
	0.5	BU	711	Left Headlamp High Beam Supply Voltage	I	Z88
B	0.5	BK	150	Ground	I	—

E4F Headlamp - Right High Beam (X88 or Z88)



Connector Part Information

Harness Type: Front Headlamp - Right

OEM Connector: 12059183

Service Connector: 12101898

Description: 2-Way F 2.0 Pitch Series (NA)

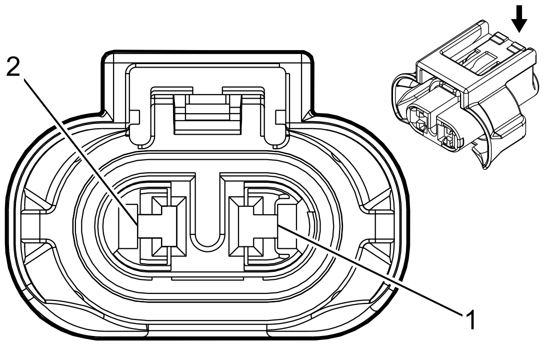
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E4F Headlamp - Right High Beam (X88 or Z88)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	WH	311	Right Headlamp High Beam Supply Voltage	I	X88
	0.5	BU	311	Right Headlamp High Beam Supply Voltage	I	Z88
B	0.5	BK	250	Ground	I	—

E4G Headlamp - Left Low Beam (X88 or Z88 without T4F)



Connector Part Information

Harness Type: Front Headlamp - Left

OEM Connector: F194300

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 2.8 Apex Series, Sealed (BK)

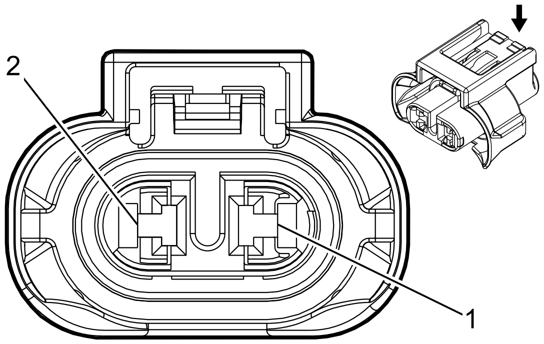
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E4G Headlamp - Left Low Beam (X88 or Z88 without T4F)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5 0.5	PU BN	712 712	Left Headlamp Low Beam Supply Voltage Left Headlamp Low Beam Supply Voltage	I I	X88 Z88
2	0.5	BK	150	Ground	I	—

E4H Headlamp - Right Low Beam (X88 or Z88 without T4F)



Connector Part Information

Harness Type: Front Headlamp - Right

OEM Connector: F194300

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 2.8 Apex Series, Sealed (BK)

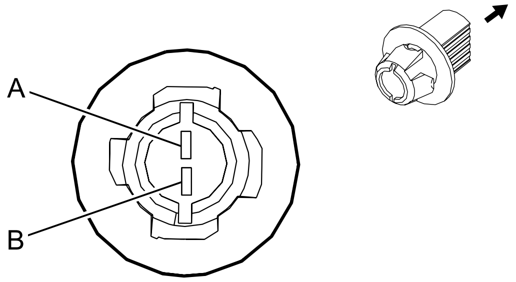
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E4H Headlamp - Right Low Beam (X88 or Z88 without T4F)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	WH	312	Right Headlamp Low Beam Supply Voltage	I	X88
	0.5	BU	312	Right Headlamp Low Beam Supply Voltage	I	Z88
B	0.5	BK	250	Ground	I	—

E5A Backup Lamp - Left (X88 or Z88)



Connector Part Information

Harness Type: Tail Lamp - Left

OEM Connector: EEM0024

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F S8 Lamp Socket (GY)

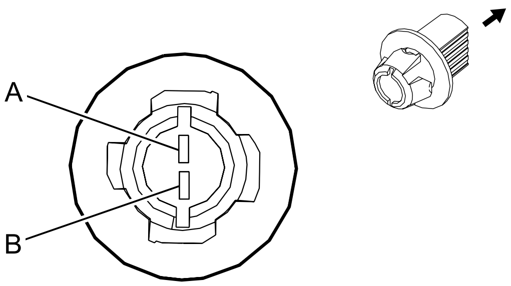
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E5A Backup Lamp - Left (X88 or Z88)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	WH	24	Backup Lamp Supply Voltage	I	—
B	0.75 0.75	BK BK	1750 1750	Ground Ground	I	—

E5B Backup Lamp - Right (X88 or Z88)



Connector Part Information

Harness Type: Tail Lamp - Right

OEM Connector: EEM0024

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F S8 Lamp Socket (GY)

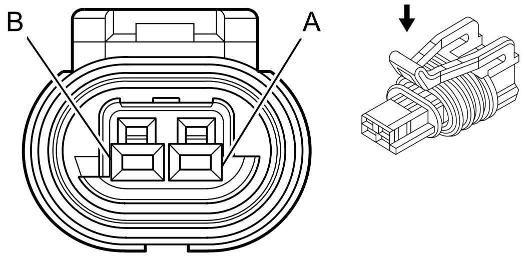
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E5B Backup Lamp - Right (X88 or Z88)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	WH	24	Backup Lamp Supply Voltage	I	—
B	0.75	BK	2150	Ground	I	—
	0.75	BK	2150	Ground		

E6 Center High Mounted Stop Lamp



Connector Part Information

Harness Type: Overhead Console

OEM Connector: 15449028

Service Connector: 88987993

Description: 2-Way F 150 GT Series, Sealed (BK)

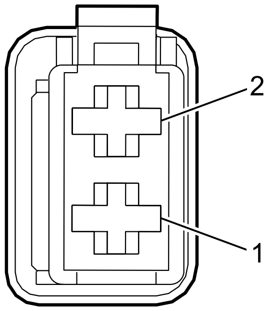
Terminal Part Information

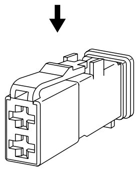
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13584457	J-35616-2A (GY)	J-38125-553	15326267	19	E	4

E6 Center High Mounted Stop Lamp

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	VT/WH	5065	Stop Lamp Relay Coil Supply Voltage	I	-
B	0.5	BK	1450	Ground	I	-

E7L License Plate Lamp - Left





Connector Part Information

Harness Type: Liftgate

OEM Connector: 10787633

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 1.2 Timer Series (GY)

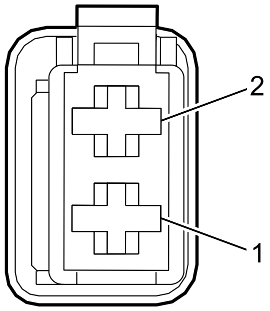
Terminal Part Information

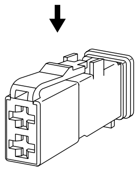
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575537	J-35616-14 (GN)	J-38125-560	962943-5	16	E	A

E7L License Plate Lamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN/YE	6846	Rear License Lamp Supply Voltage	I	-
2	0.5	BK	1450	Ground	I	-

E7R License Plate Lamp - Right





Connector Part Information

Harness Type: Liftgate

OEM Connector: 10787633

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 1.2 Timer Series (GY)

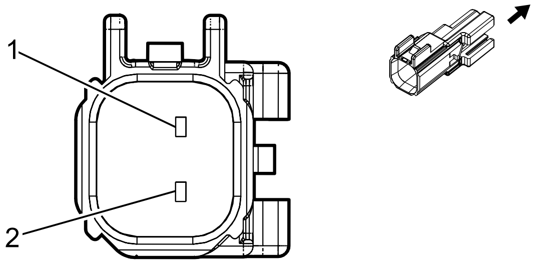
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575537	J-35616-14 (GN)	J-38125-560	962943-5	16	E	A

E7R License Plate Lamp - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN/YE	6846	Rear License Lamp Supply Voltage	I	-
2	0.5	BK	1450	Ground	I	-

E8A Door Sill Plate Lamp - Driver (Z75)



Connector Part Information

Harness Type: Body

OEM Connector: 13719748

Service Connector: 19301583

Description: 2-Way M 1.5 Series, Sealed (BK)

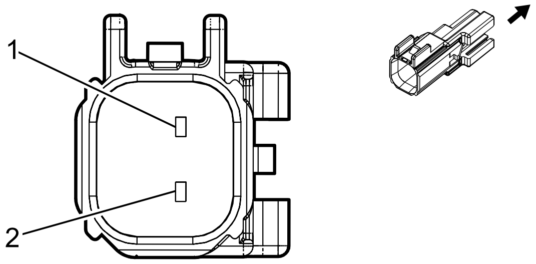
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578901	J-35616-3 (GY)	J-38125-11A	7114-4102-08	9	E	1
II	Not Available	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	7	7
III	13578914	J-35616-2A (GY)	J-38125-11A	7116-4102-08	9	E	1

E8A Door Sill Plate Lamp - Driver (Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY	157	Interior Lamp Control	I	-
2	0.5	BK	1150	Ground	I	-

E8B Door Sill Plate Lamp - Passenger (Z75)



Connector Part Information

Harness Type: Body

OEM Connector: 13719748

Service Connector: 19301583

Description: 2-Way M 1.5 Series, Sealed (BK)

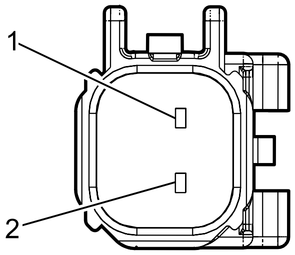
Terminal Part Information

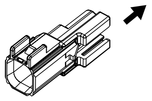
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578901	J-35616-3 (GY)	J-38125-11A	7114-4102-08	9	E	1
II	Not Available	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	7	7
III	13578914	J-35616-2A (GY)	J-38125-11A	7116-4102-08	9	E	1

E8B Door Sill Plate Lamp - Passenger (Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY	157	Interior Lamp Control	I	-
2	0.5	BK	1250	Ground	I	-

E8Q Door Sill Plate Lamp - Left Rear (Z75)





Connector Part Information

Harness Type: Body

OEM Connector: 13719748

Service Connector: 19301583

Description: 2-Way M 1.5 Series, Sealed (BK)

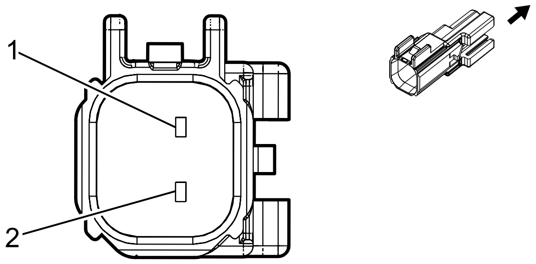
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578901	J-35616-3 (GY)	J-38125-11A	7114-4102-08	9	E	1
II	Not Available	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	7	7
III	13578914	J-35616-2A (GY)	J-38125-11A	7116-4102-08	9	E	1

E8Q Door Sill Plate Lamp - Left Rear (Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY	157	Interior Lamp Control	I	-
2	0.5	BK	1150	Ground	I	-

E8R Door Sill Plate Lamp - Right Rear (Z75)



Connector Part Information

Harness Type: Body

OEM Connector: 13719748

Service Connector: 19301583

Description: 2-Way M 1.5 Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578901	J-35616-3 (GY)	J-38125-11A	7114-4102-08	9	E	1
II	Not Available	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	7	7
III	13578914	J-35616-2A (GY)	J-38125-11A	7116-4102-08	9	E	1

E8R Door Sill Plate Lamp - Right Rear (Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY	157	Interior Lamp Control	I	-
2	0.5	BK	1250	Ground	I	-

E8YD Outside Rearview Mirror Courtesy Lamp - Driver (DL3)

—

Connector Part Information

Harness Type: Outside Rearview Mirror — Driver

OEM Connector: MHFC502W

Service Connector: Service by Component — See Part Catalog

Description: 2-Way F (WH)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E8YD Outside Rearview Mirror Courtesy Lamp - Driver (DL3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/WH	5996	Driver Outside Rear View Mirror Puddle Lamp Control	I	-
2	0.5	BK/WH	1150	Ground	I	-

E8YP Outside Rearview Mirror Courtesy Lamp - Passenger (DL3)

—

Connector Part Information

Harness Type: Outside Rearview Mirror — Passenger

OEM Connector: MHFC502W

Service Connector: Service by Component — See Part Catalog

Description: 2-Way F (WH)

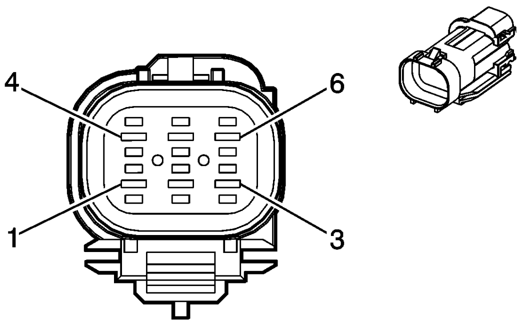
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E8YP Outside Rearview Mirror Courtesy Lamp - Passenger (DL3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/WH	5996	Passenger Outside Rear View Mirror Puddle Lamp Control	I	-
2	0.5	BK/WH	1250	Ground	I	-

E14A Seat Heating Element - Driver Back (KA1 or KB6)



Connector Part Information

Harness Type: Driver Seat Back

OEM Connector: 1452324-1

Service Connector: 93185233

Description: 6-Way M 2.8 Series, Sealed (BK)

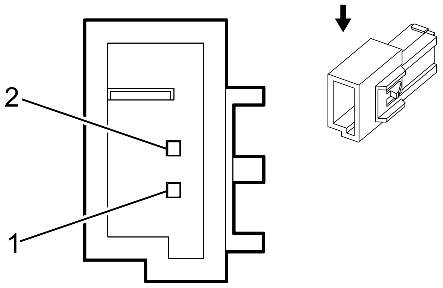
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E14A Seat Heating Element - Driver Back (KA1 or KB6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BN/BN	2432	Driver Heated Back Element Supply Voltage	I	-
2	0.75	BK/BK	1150	Ground	I	-
3-6	-	-	-	Not Occupied	-	-

E14B Seat Heating Element - Driver Cushion (KA1 or KB6)



Connector Part Information

Harness Type: Driver Seat Cushion

OEM Connector: 19153429

Service Connector: 19299682

Description: 2-Way M 0.64 Series (BK)

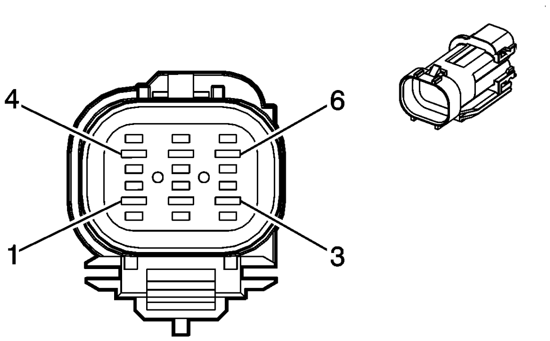
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E14B Seat Heating Element - Driver Cushion (KA1 or KB6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75 0.75	BN/VT BN/BN	2077 2077	Driver Heated Seat Element Supply Voltage Driver Heated Seat Element Supply Voltage	I	-
2	0.75 0.75	BK BK/BK	1150 1150	Ground Ground	I	-

E14C Seat Heating Element - Passenger Back (KA1 or KB6)



Connector Part Information

Harness Type: Passenger Seat Back

OEM Connector: 1452324-1

Service Connector: 93185233

Description: 6-Way M 2.8 Series, Sealed (BK)

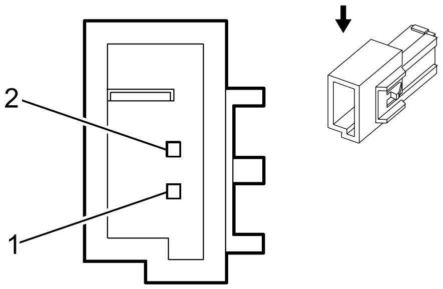
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E14C Seat Heating Element - Passenger Back (KA1 or KB6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	WH/WH	2481	Passenger Heated Back Element Supply Voltage	I	-
2	0.75	BK/BK	1250	Ground	I	-
3-6	-	-	-	Not Occupied	-	-

E14D Seat Heating Element - Passenger Cushion (KA1 or KB6)



Connector Part Information

Harness Type: Passenger Seat

OEM Connector: 19153429

Service Connector: 19299682

Description: 2-Way M 0.64 Series (BK)

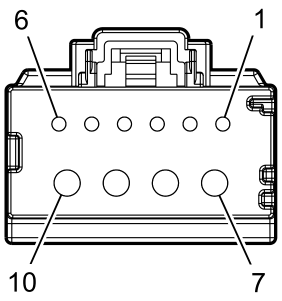
Terminal Part Information

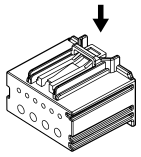
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E14D Seat Heating Element - Passenger Cushion (KA1 or KB6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75 0.75	BN/L-BU BN/BN	2479 2479	Passenger Heated Seat Element Supply Voltage Passenger Heated Seat Element Supply Voltage	I	-
2	0.75 0.75	BK BK/BK	1250 1250	Ground Ground	I	-

E14F Seat Heating Element - Left Rear Cushion (KA6)





Connector Part Information

Harness Type: 2nd Row Seat Left

OEM Connector: 31372-1000

Service Connector: Service by Harness - See Part Catalog

Description: 10-Way F 1.5, 2.8 Series (BK)

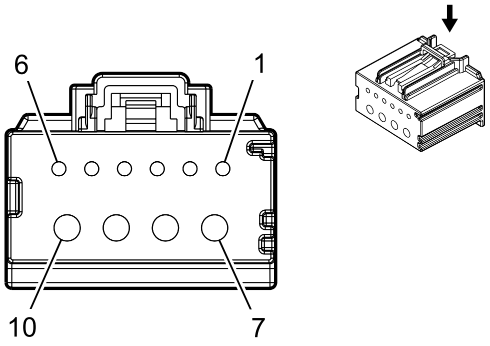
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E14F Seat Heating Element - Left Rear Cushion (KA6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	GY	2294	Left Rear Heated Seat Cushion Element Supply Voltage	I	-
2	0.75	BK	1150	Ground	I	-
3-10	-	-	-	Not Occupied	-	-

E14H Seat Heating Element - Right Rear Cushion (KA6)



Connector Part Information

Harness Type: 2nd Row Seat Right

OEM Connector: 31372-1000

Service Connector: Service by Harness - See Part Catalog

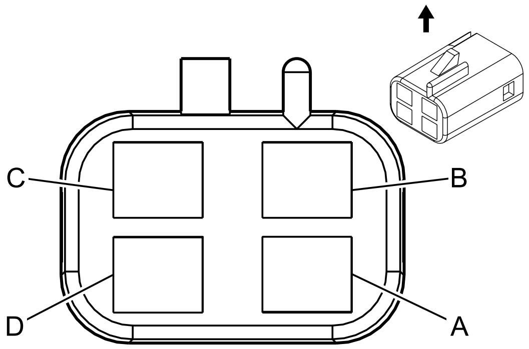
Description: 10-Way F 1.5, 2.8 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E14H Seat Heating Element - Right Rear Cushion (KA6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	L-GN	2296	Right Rear Heated Seat Cushion Element Supply Voltage	I	-
2	0.75	BK	1250	Ground	I	-
3-10	-	-	-	Not Occupied	-	-



Connector Part Information

Harness Type: Steering Wheel Harness

OEM Connector: 12047785

Service Connector: 12102900

Description: 4-Way F 150 Metri Pack Series (BK)

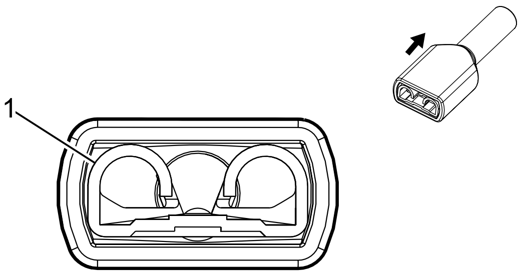
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E15 Steering Wheel Heater (UVD)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75 0.5	YE BK	1050 1050	Ground Ground	I I	X88 or Z88 Z75
B	0.75 0.5	YE WH/YE	5888 5888	Heated Steering Wheel High Control Heated Steering Wheel High Control	I I	X88 or Z88 Z75
C	0.5 0.35	RD/BK VT/BU	5886 5886	Heated Steering Wheel Sensor Signal Heated Steering Wheel Sensor Signal	I I	X88 or Z88 Z75
D	0.5 0.35	RD/BK YE/RD	1050 5885	Ground Heated Steering Wheel Voltage Reference	I I	X88 or Z88 Z75

E17D Outside Rearview Mirror Glass - Driver X1 (DD8)



Connector Part Information

Harness Type: Outside Rearview Mirror Glass - Driver

OEM Connector: 9-520272-2

Service Connector: Service by Harness - See Part

Description: 1-Way F 250 Series (BK)

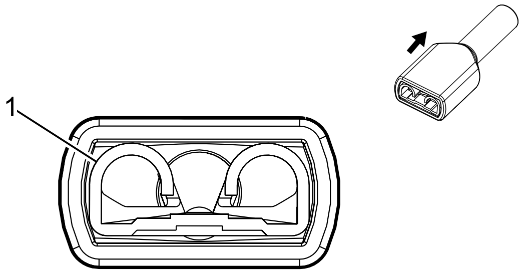
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E17D Outside Rearview Mirror Glass - Driver X1 (DD8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK	2267	Mirror Heating Element Supply Voltage	I	-

E17D Outside Rearview Mirror Glass - Driver X2 (DD8)



Connector Part Information

Harness Type: Outside Rearview Mirror Glass - Driver

OEM Connector: 9-520272-2

Service Connector: Service by Harness - See Part

Description: 1-Way F 250 Series (BK)

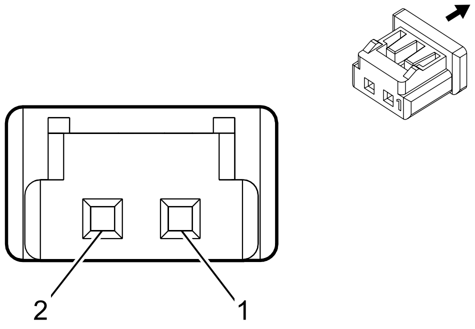
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E17D Outside Rearview Mirror Glass - Driver X2 (DD8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK	1150	Ground	I	-

E17D Outside Rearveiw Mirror Glass - Driver X3 (UKC)



Connector Part Information

Harness Type: Outside Rearview Mirror Glass - Driver

OEM Connector: 51090-0200

Service Connector: Service by Component - See Part Catalog

Description: 2-Way F 2.0 Pitch Series (NA)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E17D Outside Rearveiw Mirror Glass - Driver X3 (UKC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.21	BK/YE	5853	Driver Side Object Detection LED Signal (1)	I	—
2	0.21	BK	1150	Ground	I	—

E17D Outside Rearveiw Mirror Glass - Driver X4 (DL3)

—

Connector Part Information

Harness Type: Outside Rearview Mirror Glass - Driver

OEM Connector: Not Available

Service Connector: Service by Component - See Part Catalog

Description: 2-Way F (NA)

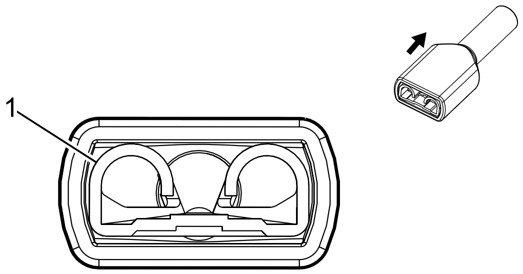
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E17D Outside Rearveiw Mirror Glass - Driver X4 (DL3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.21	BK/WH	1314	Left Front Turn Signal Lamp Supply Voltage	I	—
2	0.21	BK	1150	Ground	I	—

E17P Outside Rearview Mirror Glass - Passenger X1 (DD8)



Connector Part Information

Harness Type: Outside Rearview Mirror Glass - Passenger

OEM Connector: 9-520272-2

Service Connector: Service by Harness - See Part

Description: 1-Way F 250 Series (BK)

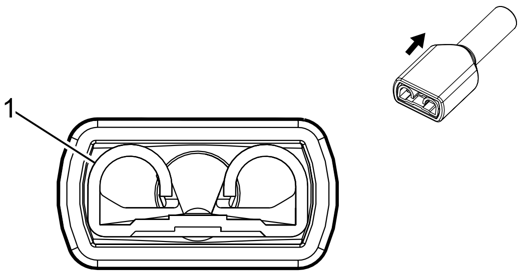
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E17P Outside Rearview Mirror Glass - Passenger X1 (DD8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK	2267	Mirror Heating Element Supply Voltage	I	-

E17P Outside Rearview Mirror Glass - Passenger X2 (DD8)



Connector Part Information

Harness Type: Outside Rearview Mirror Glass - Passenger

OEM Connector: 9-520272-2

Service Connector: Service by Harness - See Part

Description: 1-Way F 250 Series (BK)

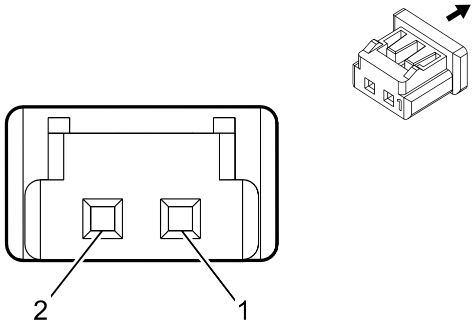
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E17P Outside Rearview Mirror Glass - Passenger X2 (DD8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK	1250	Ground	I	-

E17P Outside Rearveiw Mirror Glass - Passenger X3 (UKC)



Connector Part Information

Harness Type: Outside Rearview Mirror Glass - Passenger

OEM Connector: 51090-0200

Service Connector: Service by Component - See Part Catalog

Description: 2-Way F 2.0 Pitch Series (NA)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E17P Outside Rearveiw Mirror Glass - Passenger X3 (UKC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.21	BK/YE	5861	Passenger Side Object Detection LED Signal (1)	I	—
2	0.21	BK	1250	Ground	I	—

E17P Outside Rearview Mirror Glass - Passenger X4 (DL3)

—

Connector Part Information

Harness Type: Outside Rearview Mirror Glass - Passenger

OEM Connector: Not Available

Service Connector: Service by Component - See Part Catalog

Description: 2-Way F (NA)

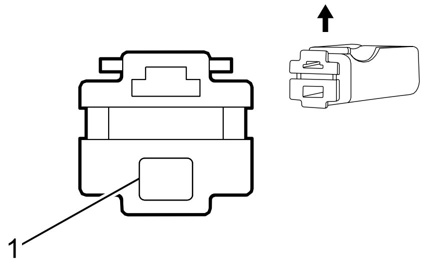
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E17P Outside Rearview Mirror Glass - Passenger X4 (DL3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.21	BK/WH	1315	Right Front Turn Signal Lamp Control	I	—
2	0.21	BK	1250	Ground	I	—

E18 Rear Defogger Grid X1



Connector Part Information

Harness Type: Liftgate

OEM Connector: 13511619

Service Connector: Service by Harness - See Part Catalog

Description: 1-Way F 250 Series (BK)

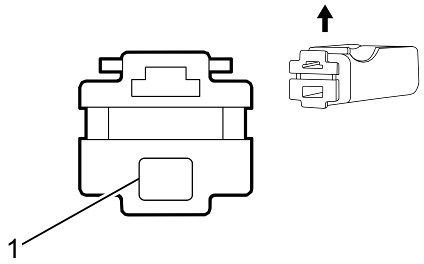
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E18 Rear Defogger Grid X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2	BK	1450	Ground	I	-

E18 Rear Defogger Grid X2



Connector Part Information

Harness Type: Liftgate

OEM Connector: 13511619

Service Connector: Service by Harness - See Part Catalog

Description: 1-Way F 250 Series (BK)

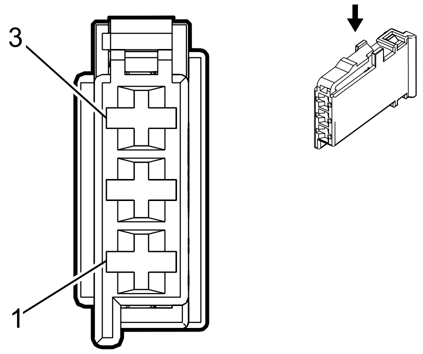
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E18 Rear Defogger Grid X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2	BK	293	Rear Defog Element Supply Voltage	I	-

E28 Center Console Compartment Lamp (D07 without DCK)



Connector Part Information

Harness Type: Floor Console

OEM Connector: 10865339

Service Connector: 93186706

Description: 3-Way F 1.6 Micro Timer Series (BK)

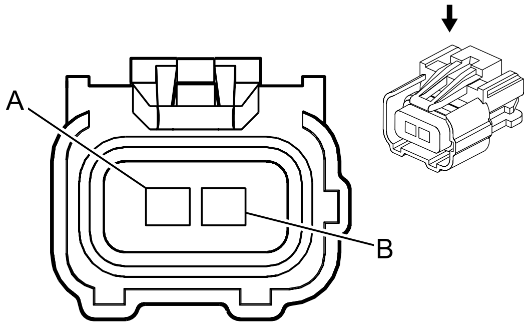
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327144	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1

E28 Center Console Compartment Lamp (D07 without DCK)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/BN	6815	Inadvertent Power Control	I	-
2	0.75 0.5	BK BK	1050 1050	Ground Ground	I	-
3	-	-	-	Not Occupied	-	-

E29LF Fog Lamp - Left Front (T3U)



Connector Part Information

Harness Type: Front Bumper

OEM Connector: 15489797

Service Connector: 19168034

Description: 2-Way F 150 Series (BK)

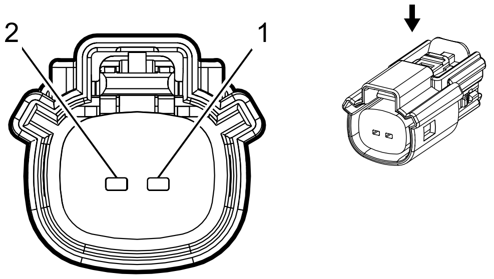
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-2A (GY)	J-38125-29	15496531	8	E	A
II	Not Available	J-35616-3 (GY)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

E29LF Fog Lamp - Left Front (T3U)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/VT	2234	Front Fog Lamp Supply Voltage	II	-
2	0.5	BK	150	Ground	II	-
A	0.5	BN/VT	2234	Front Fog Lamp Supply Voltage	I	-
B	0.5	BK	150	Ground	I	-

E29LR Fog Lamp - Left Rear (X88 with T79)



Connector Part Information

Harness Type: Rear Bumper

OEM Connector: 13782480

Service Connector: No SDC with FSU

Description: 2-Way F 150 MX Series, Sealed (BK)

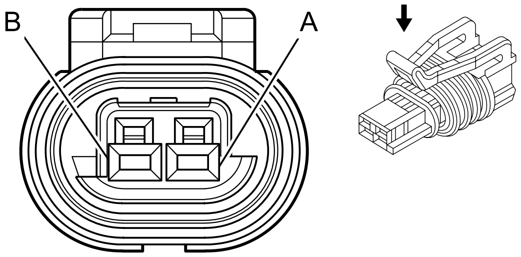
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E29LR Fog Lamp - Left Rear (X88 with T79)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/GY	122	Rear Fog Lamp Supply Voltage	I	-
2	0.5	BK	1450	Ground	I	-

E29LR Fog Lamp - Left Rear (Z75 with T79)



Connector Part Information

Harness Type: Rear Bumper

OEM Connector: 15449028

Service Connector: 88987993

Description: 2-Way F 150 GT Series, Sealed (BK)

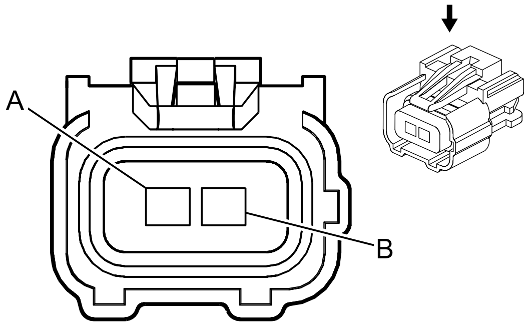
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-2A (GY)	J-38125-553	12191819	8	E	1

E29LR Fog Lamp - Left Rear (Z75 with T79)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	YE/GY	122	Rear Fog Lamp Supply Voltage	I	-
B	0.5	BK	1450	Ground	I	-

E29RF Fog Lamp - Right Front (T3U)



Connector Part Information

Harness Type: Front Bumper

OEM Connector: 15489797

Service Connector: 19168034

Description: 2-Way F 150 Series (BK)

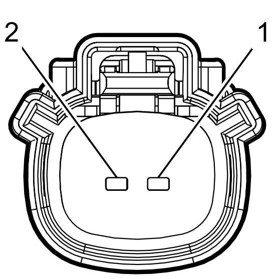
Terminal Part Information

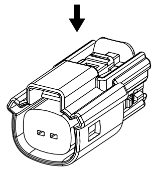
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-2A (GY)	J-38125-29	15496531	8	E	A
II	Not Available	J-35616-3 (GY)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

E29RF Fog Lamp - Right Front (T3U)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/VT	2234	Front Fog Lamp Supply Voltage	II	-
2	0.5	BK	250	Ground	II	-
A	0.5	BN/VT	2234	Front Fog Lamp Supply Voltage	I	-
B	0.5	BK	250	Ground	I	-

E29RR Fog Lamp - Right Rear (X88 with T79)





Connector Part Information

Harness Type: Rear Bumper

OEM Connector: 13782480

Service Connector: No SDC with FSU

Description: 2-Way F 150 MX Series, Sealed (BK)

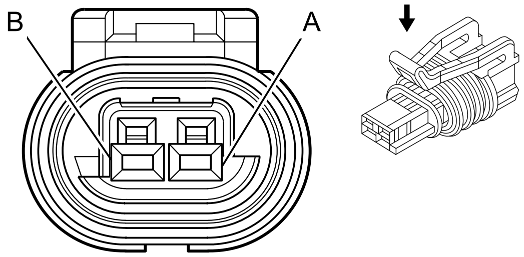
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E29RR Fog Lamp - Right Rear (X88 with T79)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/GY	122	Rear Fog Lamp Supply Voltage	I	-
2	0.5	BK	1450	Ground	I	-

E29RR Fog Lamp - Right Rear (Z75 with T79)



Connector Part Information

Harness Type: Rear Bumper

OEM Connector: 15449028

Service Connector: 88987993

Description: 2-Way F 150 GT Series, Sealed (BK)

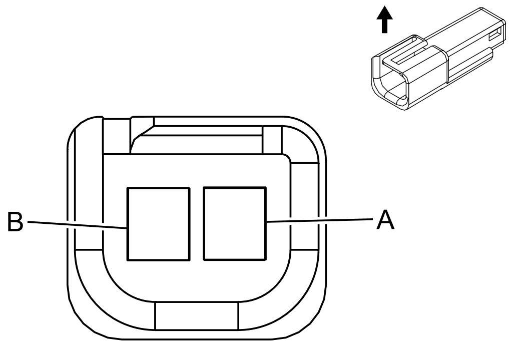
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-2A (GY)	J-38125-553	12191819	8	E	1

E29RR Fog Lamp - Right Rear (Z75 with T79)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	YE/GY	122	Rear Fog Lamp Supply Voltage	I	-
B	0.5	BK	1450	Ground	I	-

E31L Sunshade Mirror Lamp - Left



Connector Part Information

Harness Type: Headliner

OEM Connector: 12047663

Service Connector: 13584278

Description: 2-Way M 150 Metri Pack Series (BK)

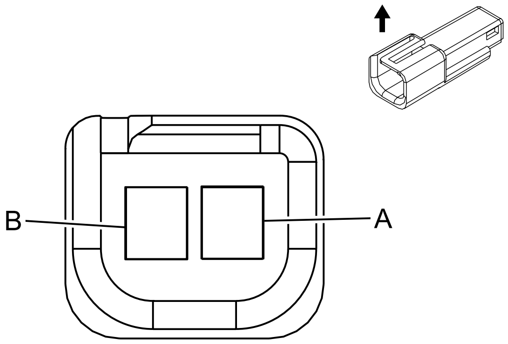
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575463	J-35616-3 (GY)	J-38125-12A	12047581	2	E	C

E31L Sunshade Mirror Lamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	WH/BN	6815	Inadvertent Power Control	I	-
B	0.5	BK	1050	Ground	I	-

E31R Sunshade Mirror Lamp - Right



Connector Part Information

Harness Type: Headliner

OEM Connector: 12047663

Service Connector: 13584278

Description: 2-Way M 150 Metri Pack Series (BK)

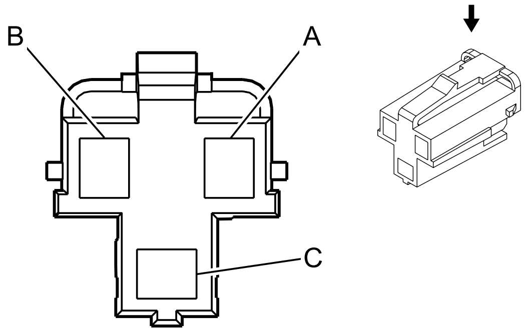
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575463	J-35616-3 (GY)	J-38125-12A	12047581	2	E	C

E31R Sunshade Mirror Lamp - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	WH/BN	6815	Inadvertent Power Control	I	-
B	0.5	BK	1050	Ground	I	-

E32 Cigarette Lighter Receptacle (DT4 with AZ3)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12176836

Service Connector: 19257374

Description: 3-Way F 280 Metri Pack Series (GY)

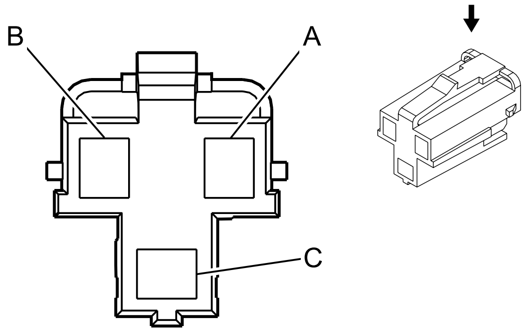
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-12A	12191475	1	4	G

E32 Cigarette Lighter Receptacle (DT4 with AZ3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	RD/WH	1040	Battery Positive Voltage	I	-
B	-	-	-	Not Occupied	-	-
C	1.5	BK	1050	Ground	I	-

E32 Cigarette Lighter Receptacle (DT4 with D07)



Connector Part Information

Harness Type: Floor Console

OEM Connector: 12176836

Service Connector: 19257374

Description: 3-Way F 280 Metri Pack Series (GY)

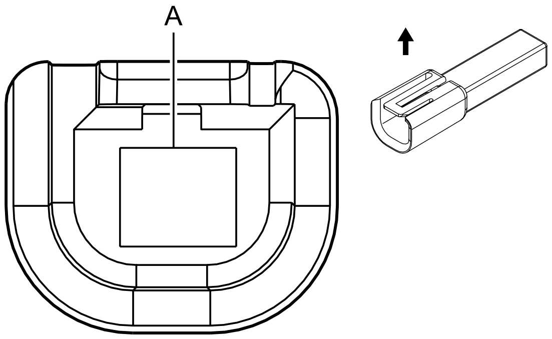
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-12A	12191475	1	4	G

E32 Cigarette Lighter Receptacle (DT4 with D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	RD/WH	1040	Battery Positive Voltage	I	-
B	-	-	-	Not Occupied	-	-
C	1.5	BK	1050	Ground	I	-

E35L Exterior Spot Lamp - Left (7X6 or 7X7)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12047683

Service Connector: 12101828

Description: 1-Way M 150 Metri Pack Series (BK)

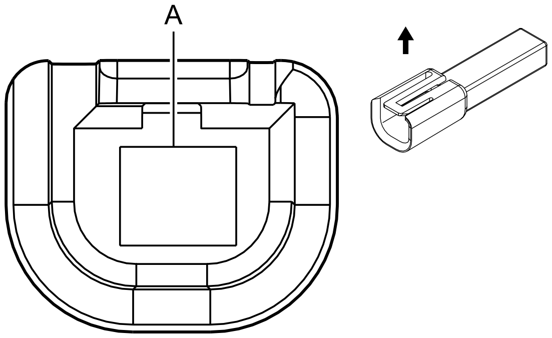
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575463	J-35616-3 (GY)	J-38125-12A	12047581	2	E	C

E35L Exterior Spot Lamp - Left (7X6 or 7X7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	RD/L-GN	3840	Battery Positive Voltage	I	-
	0.5	RD/VT	4640	Battery Positive Voltage		

E35R Exterior Spot Lamp - Right (7X7)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12047683

Service Connector: 12101828

Description: 1-Way M 150 Metri Pack Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575463	J-35616-3 (GY)	J-38125-12A	12047581	2	E	C

E35R Exterior Spot Lamp - Right (7X7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	RD/L-GN	3840	Battery Positive Voltage	I	-
	0.5	RD/GY	4140	Battery Positive Voltage		

E36AH Dome Lamp (906)

Connector Part Information

Harness Type: Rear Dome Lamp Jumper

OEM Connector: 15324070

Service Connector: Service by Harness - See Part Catalog

Description:

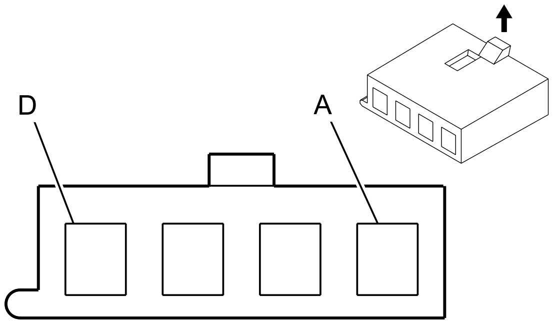
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-14 (GN)	J-38125-12A	15326030	2	E	C

E36AH Dome Lamp (906)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	GY	157	Interior Lamp Control	I	-
B	0.5	BK	1450	Ground	I	-

E37B Dome/Reading Lamps - 2nd Row (without U42)



Connector Part Information

Harness Type: Headliner

OEM Connector: 12092162

Service Connector: 15306021

Description: 4-Way F 150 Metri Pack Series (BK)

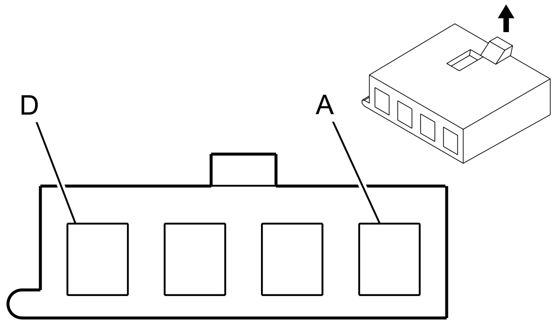
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575464	J-35616-14 (GN)	J-38125-12A	15326030	2	E	C

E37B Dome/Reading Lamps - 2nd Row (without U42)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	WH/BN	6815	Inadvertent Power Control	I	-
B	0.5	BK	1050	Ground	I	-
C	0.5	GY	157	Interior Lamp Control	I	-
D	0.5	YE	6817	LED Backlight Dimming Control	I	-

E37C Dome/Reading Lamps - 3rd Row (without DNU)



Connector Part Information

Harness Type: Headliner

OEM Connector: 12092162

Service Connector: 15306021

Description: 4-Way F 150 Metri Pack Series (BK)

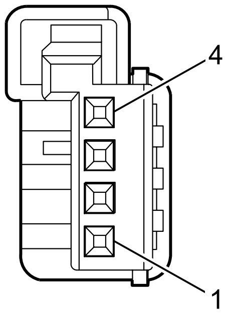
Terminal Part Information

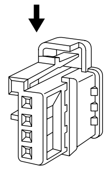
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575464	J-35616-14 (GN)	J-38125-12A	15326030	2	E	C

E37C Dome/Reading Lamps - 3rd Row (without DNU)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	WH/BN	6815	Inadvertent Power Control	I	-
B	0.5	BK	1050	Ground	I	-
C	0.5	GY	157	Interior Lamp Control	I	-
D	0.5	YE	6817	LED Backlight Dimming Control	I	-

E37EL Dome/Reading Lamps - Front Overhead Console Left





Connector Part Information

Harness Type: Overhead Console

OEM Connector: 10812166

Service Connector: 19119349

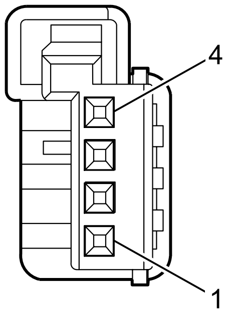
Description: 4-Way F 0.64 Micro Quadlock Series (GY)

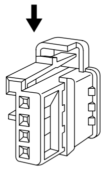
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575521	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	H	H
II	13575521	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	J	J

E37EL Dome/Reading Lamps - Front Overhead Console Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE	6817	LED Backlight Dimming Control	I	-
2	0.5	WH/BN	6815	Inadvertent Power Control	II	-
3	0.5	GY	157	Interior Lamp Control	II	-
4	0.5	BK	1050	Ground	II	-





Connector Part Information

Harness Type: Overhead Console

OEM Connector: 10812166

Service Connector: 19119349

Description: 4-Way F 0.64 Micro Quadlock Series (GY)

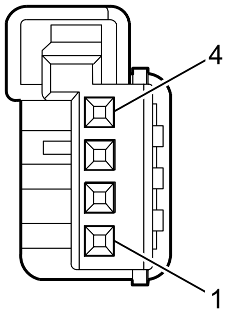
Terminal Part Information

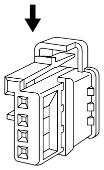
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575521	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	H	H
II	13575521	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	J	J

E37ER Dome/Reading Lamps - Front Overhead Console Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE	6817	LED Backlight Dimming Control	I	-
2	0.5	WH/BN	6815	Inadvertent Power Control	II	-
3	0.5	GY	157	Interior Lamp Control	II	-
4	0.5	BK	1050	Ground	II	-

E37H Dome/Reading Lamps - Left Roof Rail (U42)





Connector Part Information

Harness Type: Headliner

OEM Connector: 10812166

Service Connector: 19119349

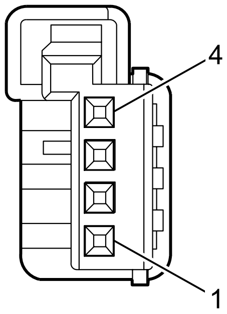
Description: 4-Way F 0.64 Micro Quadlock Series (GY)

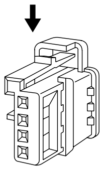
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575521	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	J	J

E37H Dome/Reading Lamps - Left Roof Rail (U42)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE	6817	LED Backlight Dimming Control	I	-
2	0.5	WH/BN	6815	Inadvertent Power Control	I	-
3	0.5	GY	157	Interior Lamp Control	I	-
4	0.5	BK	1050	Ground	I	-





Connector Part Information

Harness Type: Headliner

OEM Connector: 10812166

Service Connector: 19119349

Description: 4-Way F 0.64 Micro Quadlock Series (GY)

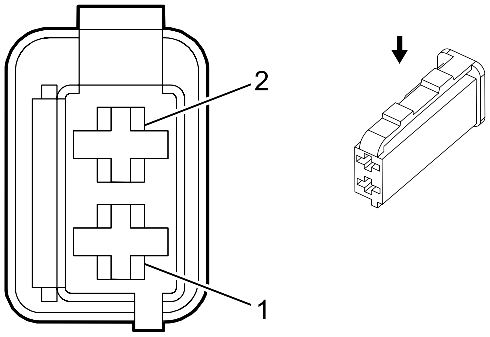
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575521	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	J	J

E37J Dome/Reading Lamps - Right Roof Rail (U42)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE	6817	LED Backlight Dimming Control	I	-
2	0.5	WH/BN	6815	Inadvertent Power Control	I	-
3	0.5	GY	157	Interior Lamp Control	I	-
4	0.5	BK	1050	Ground	I	-

E55LR Flood Lamp - Left Rear Door Pocket (Z75)



Connector Part Information

Harness Type: Left Rear Door Trim

OEM Connector: 13670097

Service Connector: 13580951

Description: 2-Way F 1.6 Timer Series (BK)

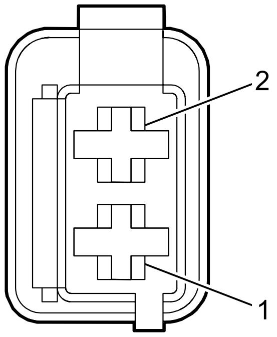
Terminal Part Information

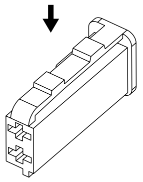
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575537	J-35616-14 (GN)	J-38125-560	962943-5	16	Not Available	Not Available

E55LR Flood Lamp - Left Rear Door Pocket (Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/YE	7557	LED Ambient Lighting Control 1	I	-
2	0.35	BK	1150	Ground	I	-

E55RR Flood Lamp - Right Rear Door Pocket (Z75)





Connector Part Information

Harness Type: Right Rear Door Trim

OEM Connector: 13670097

Service Connector: 13580951

Description: 2-Way F 1.6 Timer Series (BK)

Harness Type: Right Rear Door

OEM Connector: 13670097

Service Connector: 13580951

Description: 2-Way F 1.6 Timer Series (BK)

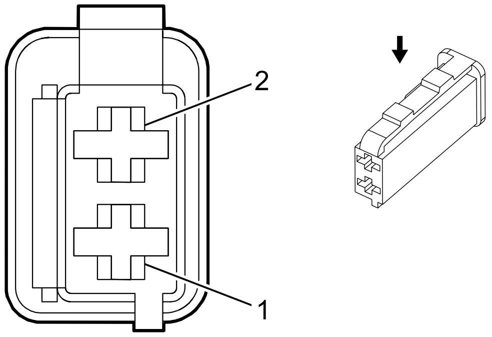
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575537	J-35616-14 (GN)	J-38125-560	962943-5	16	Not Available	Not Available

E55RR Flood Lamp - Right Rear Door Pocket (Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/YE	7557	LED Ambient Lighting Control 1	I	-
2	0.35	BK	1250	Ground	I	-

E63D Flood Lamp - Driver Door Handle (Z75)



Connector Part Information

Harness Type: Driver Door Trim

OEM Connector: 13670097

Service Connector: 13580951

Description: 2-Way F 1.6 Timer Series (BK)

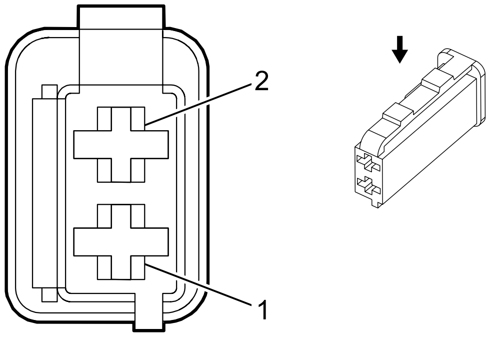
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575760	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1

E63D Flood Lamp - Driver Door Handle (Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/YE	7557	LED Ambient Lighting Control 1	I	-
2	0.35	BK	1150	Ground	I	-

E63P Flood Lamp - Passenger Door Handle (Z75)



Connector Part Information

Harness Type: Passenger Door

OEM Connector: 13670097

Service Connector: 13580951

Description: 2-Way F 1.6 Timer Series (BK)

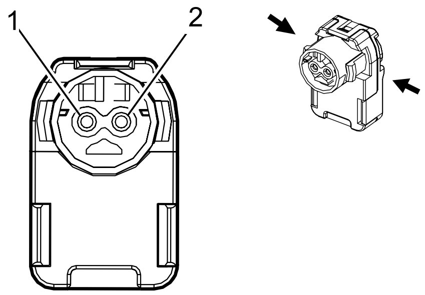
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575537	J-35616-14 (GN)	J-38125-560	962943-5	16	Not Available	Not Available

E63P Flood Lamp - Passenger Door Handle (Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/YE	7557	LED Ambient Lighting Control 1	I	-
2	0.35	BK	1250	Ground	I	-

F101 Passenger Instrument Panel Air Bag X1



Connector Part Information

Harness Type: Passenger Air Bag

OEM Connector: Not Available

Service Connector: Service by Component - See Part Catalog

Description: 2-Way F, Sealed (L-GN with YE cover)

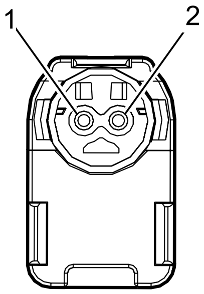
Terminal Part Information

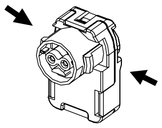
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

F101 Passenger Instrument Panel Air Bag X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE	3025	Passenger IP Module Stage 1 High Control	I	-
2	0.5	OG	3024	Passenger IP Module Stage 1 Low Control	I	-

F101 Passenger Instrument Panel Air Bag X2





Connector Part Information

Harness Type: Passenger Air Bag

OEM Connector: Not Available

Service Connector: Service by Component - See Part Catalog

Description: 2-Way F, Sealed (YE with YE cover)

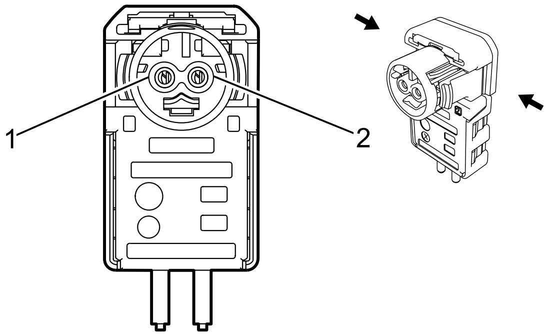
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

F101 Passenger Instrument Panel Air Bag X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY	3027	Passenger IP Module Stage 2 High Control	I	-
2	0.5	PU	3026	Passenger IP Module Stage 2 Low Control	I	-

F105L Roof Rail Air Bag - Left



Connector Part Information

Harness Type: Left Roof Rail Air Bag

OEM Connector: Not Available

Service Connector: Service by Component - See Part Catalog

Description: 2-Way F (BK with YE cover)

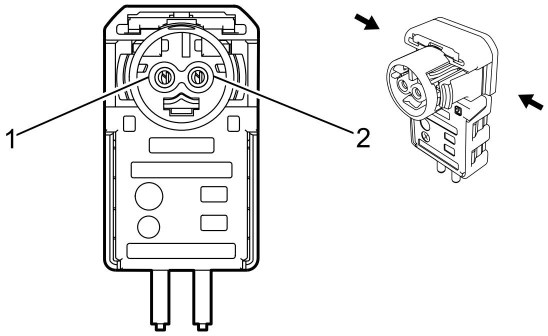
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

F105L Roof Rail Air Bag - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/TN	5019	Left Front Head Curtain Module High Control	I	-
2	0.5	YE/OG	5020	Left Front Head Curtain Module Low Control	I	-

F105R Roof Rail Air Bag - Right



Connector Part Information

Harness Type: Right Roof Rail Air Bag

OEM Connector: Not Available

Service Connector: Service by Component - See Part Catalog

Description: 2-Way F (BK with YE cover)

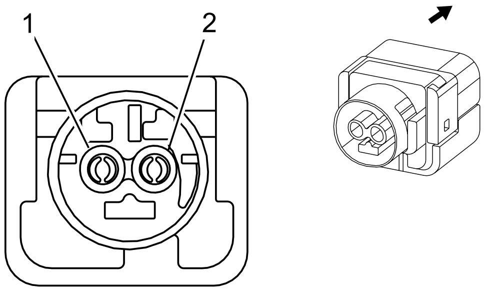
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-16 (L-GN)	J-38125-22	Not Available	Not Available	Not Available	Not Available

F105R Roof Rail Air Bag - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	OG/GN	5021	Right Front Head Curtain Module High Control	I	-
2	0.35	PU/OG	5022	Right Front Head Curtain Module Low Control	I	-

F106D Seat Side Air Bag - Driver



Connector Part Information

Harness Type: Driver Seat Back

OEM Connector: PPI0001142

Service Connector: Service by Harness - See Part Catalog

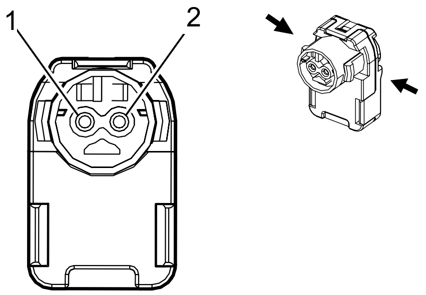
Description: 2-Way F FPB 180-1 Series (BK with YE Cover)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

F106D Seat Side Air Bag - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/BU	3068	Driver Side Impact Module High Control	I	-
2	0.5	L-GN/OG	3069	Driver Side Impact Module Low Control	I	-



Connector Part Information

Harness Type: Driver Seat Back

OEM Connector: PPI0001722

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 0.64 Series, Sealed (L-GN with YE Cover)

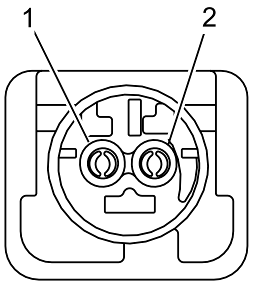
Terminal Part Information

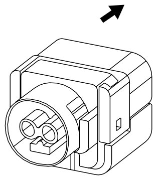
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

F106DA Seat Side Air Bag - Driver Inboard (AYQ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/WH	4107	Center Side Impact Module High Control	I	-
2	0.5	VT	4106	Center Side Impact Module Low Control	I	-

F106P Seat Side Air Bag - Passenger





Connector Part Information

Harness Type: Passenger Seat Back

OEM Connector: PPI0001142

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F FPB 180-1 Series (BK with YE Cover)

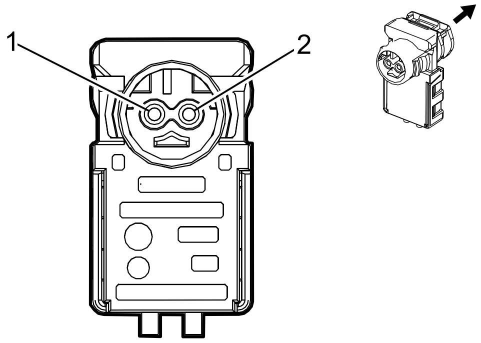
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

F106P Seat Side Air Bag - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/GY	3066	Passenger Side Impact Module High Control	I	-
2	0.5	BN/OG	3067	Passenger Side Impact Module Low Control	I	-

F107 Steering Wheel Air Bag X1



Connector Part Information

Harness Type: Steering Wheel Air Bag Coil

OEM Connector: Not Available

Service Connector: Service by Component - See Part Catalog

Description: 2-Way F (L-GN with YE cover)

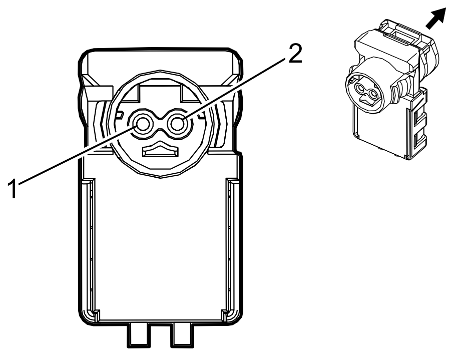
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

F107 Steering Wheel Air Bag X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	TN	3021	Steering Wheel Module Stage 1 High Control	I	-
2	0.35	BN	3020	Steering Wheel Module Stage 1 Low Control	I	-

F107 Steering Wheel Air Bag X2



Connector Part Information

Harness Type: Steering Wheel Air Bag Coil

OEM Connector: Not Available

Service Connector: Service by Component - See Part Catalog

Description: 2-Way F (YE)

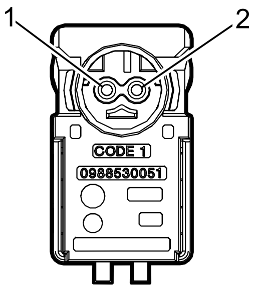
Terminal Part Information

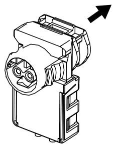
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

F107 Steering Wheel Air Bag X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH	3023	Steering Wheel Module Stage 2 High Control	I	-
2	0.35	PK	3022	Steering Wheel Module Stage 2 Low Control	I	-

F112D Seat Belt Retractor Pretensioner - Driver





Connector Part Information

Harness Type: Body

OEM Connector: 13973027

Service Connector: Service by Component - See Part Catalog

Description: 2-Way F AK 2 Series (BK with YE cover)

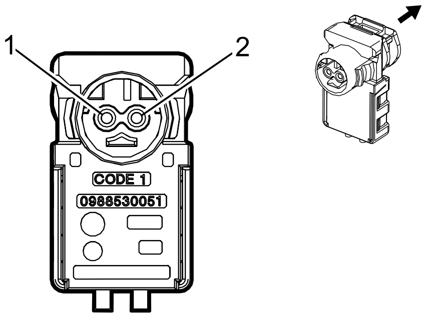
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

F112D Seat Belt Retractor Pretensioner - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD	3477	Driver Seat Belt Retractor Pretensioner High Control	I	-
2	0.5	GY	3478	Driver Seat Belt Retractor Pretensioner Low Control	I	-

F112P Seat Belt Retractor Pretensioner - Passenger X1



Connector Part Information

Harness Type: Body

OEM Connector: 13973026

Service Connector: Service by Component - See Part Catalog

Description: 2-Way F AK 2 Series (YE with BK Cover)

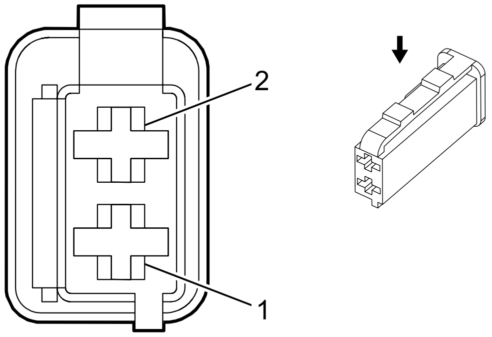
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

F112P Seat Belt Retractor Pretensioner - Passenger X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN	3475	Passenger Seat Belt Retractor Pretensioner High Control	I	-
2	0.5	WH	3476	Passenger Seat Belt Retractor Pretensioner Low Control	I	-

F112P Seat Belt Retractor Pretensioner - Passenger X2



Connector Part Information

Harness Type: Body

OEM Connector: 13670097

Service Connector: 13580951

Description: 2-Way F 1.6 Timer Series (BK)

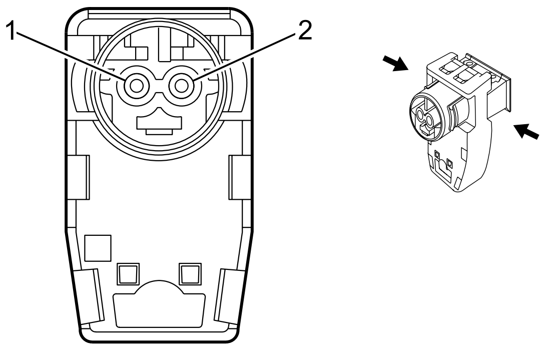
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575537	J-35616-14 (GN)	J-38125-560	962943-5	16	Not Available	Not Available

F112P Seat Belt Retractor Pretensioner - Passenger X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	D-BU/RD	5612	Passenger Seat Belt Tension Sensor Voltage Reference	I	-
2	0.35	VT/OG	5611	Passenger Seat Belt Tension Sensor Signal	I	-

F113D Seat Belt Anchor Pretensioner - Driver



Connector Part Information

Harness Type: Driver Seat Cushion

OEM Connector: PPI0001721

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 0.64 Series, Sealed (BK with YE Cover)

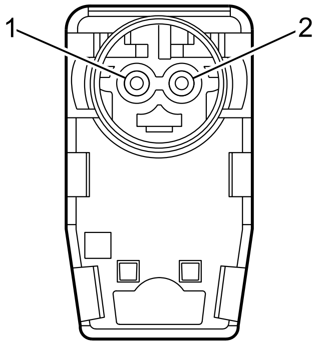
Terminal Part Information

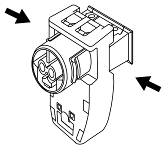
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

F113D Seat Belt Anchor Pretensioner - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/YE	3481	Driver Seat Belt Anchor Pretensioner High Control	I	-
2	0.5	YE/OG	3482	Driver Seat Belt Anchor Pretensioner Low Control	I	-

F113P Seat Belt Anchor Pretensioner - Passenger





Connector Part Information

Harness Type: Passenger Seat

OEM Connector: PPI0001721

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 0.64 Series, Sealed (BK with YE Cover)

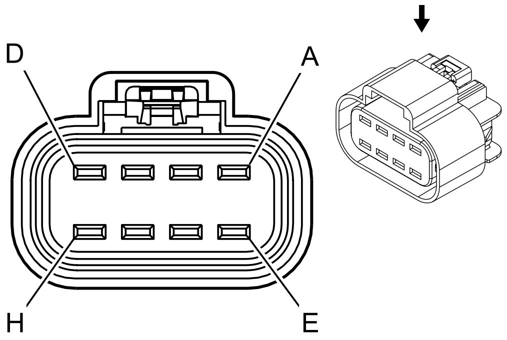
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

F113P Seat Belt Anchor Pretensioner - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/BN	3479	Passenger Seat Belt Anchor Pretensioner High Control	I	-
2	0.5	GY/OG	3480	Passenger Seat Belt Anchor Pretensioner Low Control	I	-

G3 Air Suspension Compressor (Z85 or Z95)



Connector Part Information

Harness Type: Chassis

OEM Connector: 15326654

Service Connector: 88986254

Description: 8-Way F 280 GT 5.8 Series, Sealed (BK)

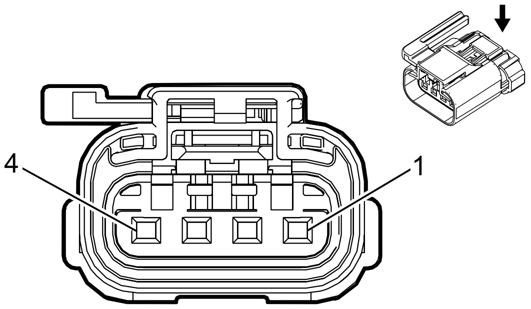
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578915	J-35616-5 (PU)	J-38125-553	15304719	19	Not Available	Not Available
II	Not Available	J-35616-4A (PU)	J-38125-553	Not Available	Not Available	Not Available	Not Available

G3 Air Suspension Compressor (Z85 or Z95)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	YE/GN	6075	Real Time Damping Air Pressure Sensor Signal	I	—
B	0.75 0.75	RD/GN WH/BU	2440 3261	Battery Positive Voltage Automatic Level Control Exhaust Solenoid Supply Voltage	I I	Z85 Z95
C	0.75	WH/GN	320	Automatic Level Control Exhaust Solenoid Control	I	—
D	—	—	—	Not Occupied	I	—
E	2.5	WH/VT	2248	Real Time Damping Leveling Motor Supply Voltage	II	—
F	0.5	BK/YE	6077	Real Time Damping Air Pressure Sensor Low Reference	I	—
G	2.5	BK	1750	Ground	II	—
H	0.5	BU/RD	6076	Real Time Damping Air Pressure Sensor 5 Volt Reference	I	—

G10L Cooling Fan Motor - Left



Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 13949247

Service Connector: 19301718

Description: 4-Way F 2.8 APEX Series, Sealed (BK)

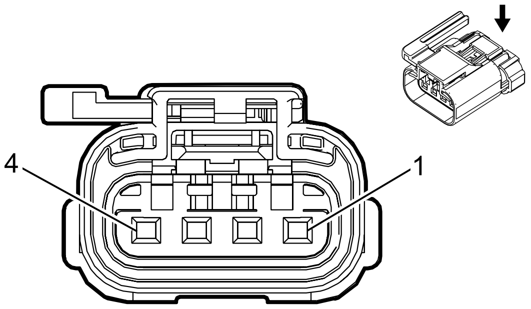
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available
II	Pending	J-35616-35 (VT)	J-38125-12A	54001800	22	2	4

G10L Cooling Fan Motor - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	4	BK	150	Ground	I	-
2	4	RD/WH	342	Battery Positive Voltage	I	-
3	-	-	-	Not Occupied	-	-
4	0.5	BN/YE	473	High Speed Cooling Fan Relay Control	II	-

G10R Cooling Fan Motor - Right



Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 13949247

Service Connector: 19301718

Description: 4-Way F 2.8 APEX Series, Sealed (BK)

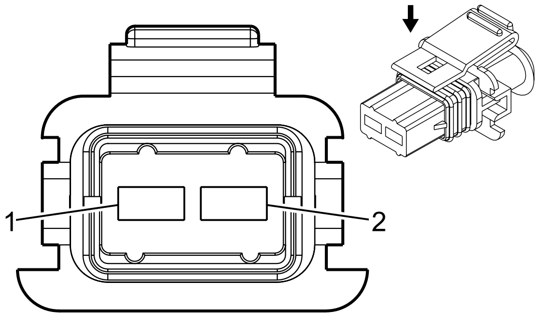
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available
II	Pending	J-35616-35 (VT)	J-38125-12A	54001800	22	2	4

G10R Cooling Fan Motor - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	4	BK	250	Ground	I	-
2	4	RD/GY	642	Battery Positive Voltage	I	-
3	-	-	-	Not Occupied	-	-
4	0.5	BN/YE	473	High Speed Cooling Fan Relay Control	II	-

G13 Generator X1



Connector Part Information

Harness Type: Engine

OEM Connector: 12186308

Service Connector: 13585849

Description: 2-Way F Junior Power Timer Series, Sealed (BK)

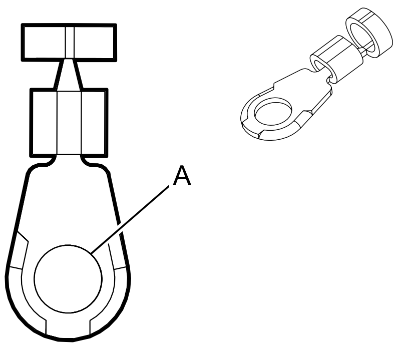
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-35 (VT)	J-38125-36	4-964286-1	16	E	1

G13 Generator X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN	25	Charge Indicator Control	I	-
2	0.5	GY	23	Generator Field Duty Cycle Signal	I	-

G13 Generator X2



Connector Part Information

Harness Type: Starter - Generator

OEM Connector: 13584015

Service Connector: Service by Harness - See Part Catalog

Description: Ring Terminal

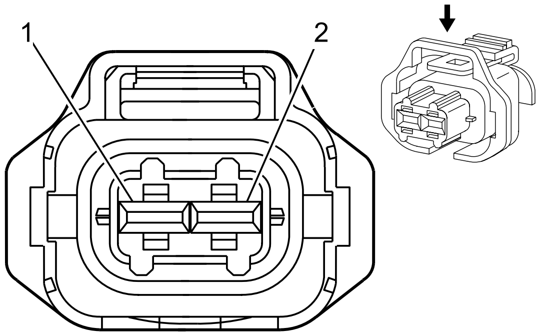
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness — See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

G13 Generator X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	25	RD/YE	2	Battery Positive Voltage	I	—

G18 High Pressure Fuel Pump



Connector Part Information

Harness Type: Fuel Injector - Even

OEM Connector: 88988163

Service Connector: 88988963

Description: 2 F Kompakt 2.8 Series, Sealed (BK)

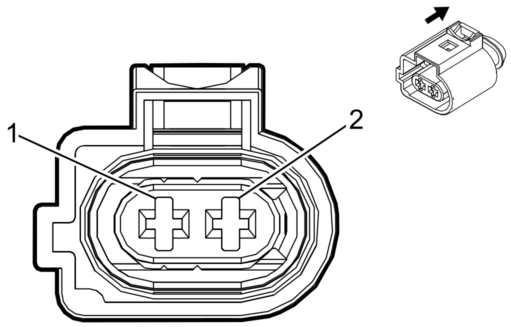
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

G18 High Pressure Fuel Pump

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	YE	7301	High Pressure Fuel Pump Actuator High - Control	I	-
2	0.75	VT/BK	7300	High Pressure Fuel Pump Actuator Low - Control	I	-

G19 Rear Window Washer Pump



Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 13930731

Service Connector: Pending

Description: 2-Way F 2.8 MCP Series, Sealed (NA)

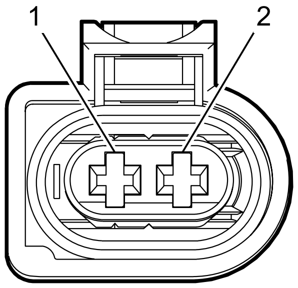
Terminal Part Information

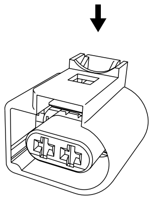
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-35 (VT)	J-38125-557	1-968857-3	7	Not Available	Not Available

G19 Rear Window Washer Pump

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	D-BU/VT	392	Rear Window Washer Pump Control	I	-
2	0.75	BK	150	Ground	I	-

G24 Windshield Washer Pump





Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 10863916

Service Connector: 13576532

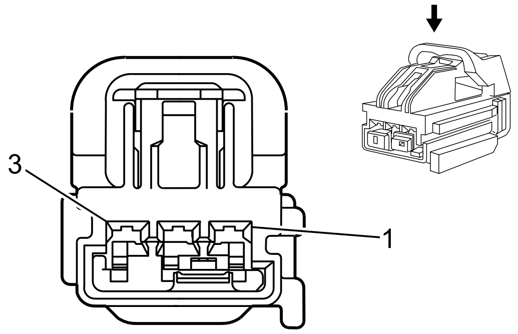
Description: 2-Way F 2.8 MDK5 Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-35 (VT)	J-38125-557	1-968857-3	7	Not Available	Not Available

G24 Windshield Washer Pump

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	GY/VT	228	Windshield Washer Pump Control	I	-
2	0.75	BK	150	Ground	I	-



Connector Part Information

Harness Type: Driver Seat Cushion

OEM Connector: 7283-3440-40

Service Connector: 19149536

Description: 3-Way F 1.5 Kaizen Series (L-GY)

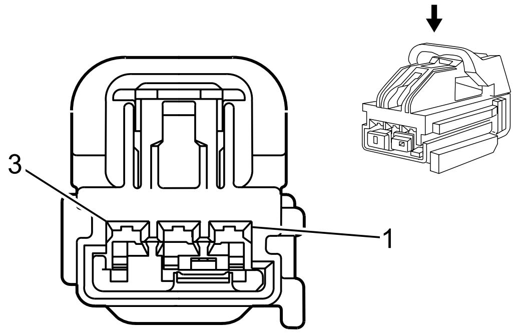
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

G31D Seat Lumbar/Bolster Pump - Driver (ULT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/VT	901		I	-
2	0.5	BK/BK	1150	Ground	I	-
3	0.5	L-GN/L-GN	903		I	-

G31P Seat Lumbar/Bolster Pump - Passenger (ULT)



Connector Part Information

Harness Type: Passenger Seat

OEM Connector: 7283-3440-40

Service Connector: 19149536

Description: 3-Way F 1.5 Kaizen Series (L-GY)

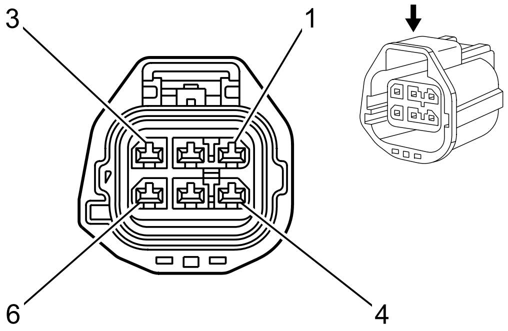
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

G31P Seat Lumbar/Bolster Pump - Passenger (ULT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/VT	901		I	-
2	0.5	BK/BK	1250	Ground	I	-
3	0.5	L-GN/L-GN	903		I	-

K4 Assist Step Control Module X1 (BRS)



Connector Part Information

Harness Type: Chassis

OEM Connector: 15342659

Service Connector: 88988393

Description: 6-Way F 2.8 Series, Sealed (D-GY)

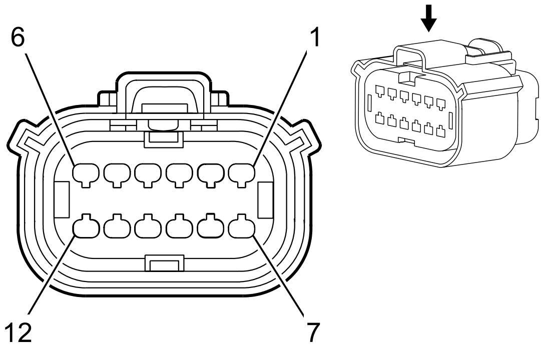
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-35 (VT)	J-38125-12A	1326030-8	17	A	4
II	13575797	J-35616-35 (VT)	J-38125-11A	7116-4152-02	9	A	5

K4 Assist Step Control Module X1 (BRS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2	L-GN	7469	Articulating Running Boards Motor Right Control Retract	I	-
2	2.5	BK	1350	Ground	II	-
3	2	WH/BN	7471	Articulating Running Boards Motor Left Control Extend	I	-
4	2	D-BU	7470	Articulating Running Boards Motor Right Control Extend	I	-
5	2.5	RD/YE	1142	Battery Positive Voltage	II	-
6	2	GY	7472	Articulating Running Boards Motor Left Control Retract	I	-

K4 Assist Step Control Module X2 (BRS)



Connector Part Information

Harness Type: Chassis

OEM Connector: 15525970

Service Connector: 13503528

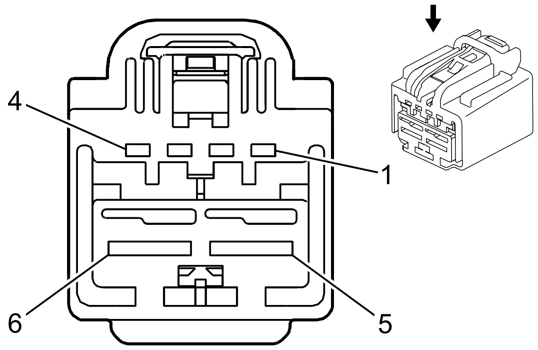
Description: 12-Way F 1.5 Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575808	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	E	2

K4 Assist Step Control Module X2 (BRS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/RD	7468	Running Boards Motor Hall Sensor Left Reference	I	-
2	0.5	L-GN/RD	7464	Running Boards Motor Hall Sensor Right Reference	I	-
3	0.5	YE	7467	Running Boards Motor Hall Sensor Left Signal	I	-
4	0.5	VT	7465	Running Boards Motor Hall Sensor Right Signal	I	-
5	0.5	YE/BN	7466	Running Boards Motor Hall Sensor Left Return	I	-
6	0.5	YE/BK	7463	Running Boards Motor Hall Sensor Right Return	I	-
7	-	-	-	Not Occupied	-	-
8	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	-
9	-	-	-	Not Occupied	-	-
10	0.5	BN/WH	7462	Running Boards Disable Signal	I	-
11-12	-	-	-	Not Occupied	-	-



Connector Part Information

Harness Type: Auxiliary HVAC

OEM Connector: 15226104

Service Connector: 88988512

Description: 6–Way F YESC Kaizen Series (BK)

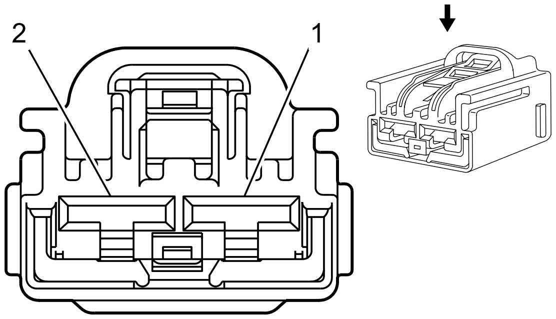
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K8A Blower Motor Control Module - Auxiliary X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-2	-	-	-	Not Occupied	I	-
3	0.35	L-GN/BK	2211	Rear Blower Motor Speed Control	I	-
4	-	-	-	Not Occupied	I	-
5	2.5	BK	1450	Ground	II	-
6	2.5	RD/GY	1740	Battery Positive Voltage	II	-

K8A Blower Motor Control Module - Auxiliary X2



Connector Part Information

Harness Type: Auxiliary HVAC

OEM Connector: 15226103

Service Connector: 88988507

Description: 2 F 6.3 Series (L-GY)

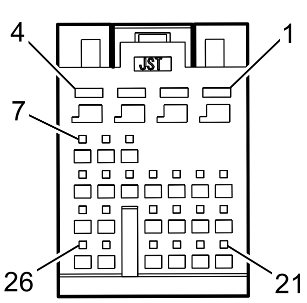
Terminal Part Information

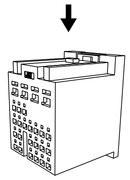
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K8A Blower Motor Control Module - Auxiliary X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	GY/BN	101	Blower Motor Supply Voltage	I	-
2	2.5	D-BU/BK	5988	Rear Blower Motor Return	I	-

K9 Body Control Module X1





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13943345

Service Connector: Pending

Description: 26-Way F 0.64, 2.8 Series (NA)

Terminal Part Information

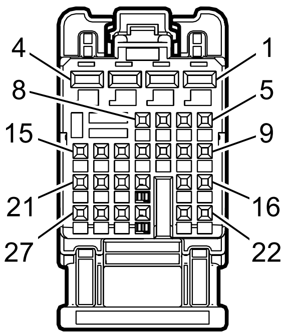
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327199	J-35616-35 (VT)	J-38125-12A	SNAC-A061T-M2.8	20	E	A
II	13582297	J-35616-64B (L-BU)	J-38125-22	Not Available	Not Available	Not Available	Not Available
III	13588907	J-35616-64B (L-BU)	J-38125-22	Not Available	Not Available	Not Available	Not Available
IV	13575871	J-35616-35 (VT)	J-38125-12A	SNAC-A061T-M2.8	20	C	A

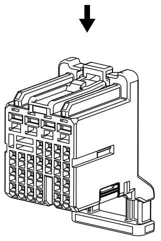
K9 Body Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	1850	Ground	I	-
2	0.75	RD/D-BU	2540	Battery Positive Voltage	I	-
3	1	RD/GY	2140	Battery Positive Voltage	IV	-
4	0.5	RD/BN	2240	Battery Positive Voltage	I	-
5	0.5	WH	6816	Indicator Dimming Control	II	-
6	0.35	BN/WH	4046	Glove Box Door Release Relay Control	II	-
7	0.35	BK/YE	5005	Instrument Panel Lamp Dimmer Switch Low Reference	II	-
8	0.35	BN/BK	5720	Ignition Mode Switch Accessory LED Signal	II	-
9	-	-	-	Not Occupied	-	-
10	0.5	D-BU/VT	1134	Park Brake Switch Signal	II	-
11	0.35	L-GN/BN	306	Headlamp Switch Headlamps Off Signal Control	II	-
12	-	-	-	Not Occupied	-	-

13	0.35	D-BU/RD	1688	5 Volt Reference	II	-
14	0.35	GY/L-GN	328	Interior Lamp Defeat Switch Signal	II	-
15	0.75 0.35	D-BU/L-GN D-BU/GY	6841 192	Rear Lamp Flasher Signal Front Fog Lamp Switch Signal	III	-
16	0.35	WH/VT	103	Headlamp Switch On Signal	II	-
17	-	-	-	Not Occupied	-	-
18	0.35	D-BU/VT	5904	Steering Column Lock Status Signal	II	-
19	0.35	BK/L-GN	552	Sensor Low Reference	II	-
20	0.35	D-BU/BK	5719	Ignition Mode Switch Start LED Signal	II	-
21	0.35	GY	728	Security Indicator Control	II	-
22	0.35	L-GN/GY	13	Headlamp Switch Park Lamp Signal	II	-
23	0.5	VT/L-GN	7558	LED Ambient Lighting Control 2	II	-
24	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	II	-
25	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	II	-
26	0.35	D-BU/WH	3275	Remote Function Actuator Receive Signal	II	-

K9 Body Control Module X2





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13943361

Service Connector: 13576637

Description: 27-Way F 0.64, 2.8 Series (L-BU)

Terminal Part Information

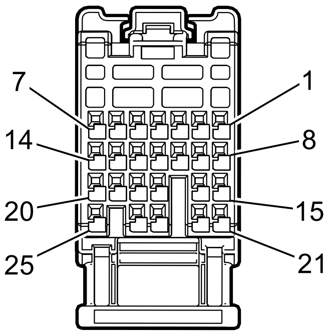
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327199	J-35616-35 (VT)	J-38125-12A	SNAC-A061T-M2.8	20	E	A
II	13582297	J-35616-64B (L-BU)	J-38125-22	Not Available	Not Available	Not Available	Not Available

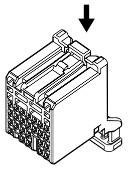
K9 Body Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/WH	2740	Battery Positive Voltage	I	-
2	0.75	BK	1850	Ground	I	-
3	0.5	RD/BN	2940	Battery Positive Voltage	I	-
4	0.75	RD/VT	4040	Battery Positive Voltage	I	-
5	-	-	-	Not Occupied	-	-
6	0.35	GY	5697	Child Lockout Indicator	II	-
7	0.35	WH/L-GN	526	Stop Lamp Switch Signal	II	-
8	0.5	YE	6817	LED Backlight Dimming Control	II	-
9	0.35	YE/GY	44	Instrument Panel Lamp Dimmer Switch Signal	II	-
10	0.35	WH/D-BU	278	Ambient Light Sensor Signal	II	-
11	-	-	-	Not Occupied	-	-
12	0.35	BN/D-BU	391	Rear Window Wiper Switch Signal	II	-
13	0.35	GY/RD	598	5 Volt Reference	II	-
14	0.35	D-BU/VT	1788	Traction Control Switch Signal (1)	II	-

15	0.35	BN/WH	781	Driver Door Lock Switch Unlock Signal	II	-
16	0.35	GY	3273	Remote Function Actuator Return	II	-
17	0.35	D-BU/L-GN	5723	Ignition Mode Switch Mode Voltage	II	-
18	0.35	L-GN/WH	4047	Glove Box Door Release Signal	II	-
19	0.35	BN/YE	780	Driver Door Lock Switch Lock Signal	II	-
20	0.5	WH/D-BU	3691	Trailer Brake Apply Signal	II	-
21	0.5	L-GN/GY	6135	Linear Interconnect Network Bus 4	II	-
22-24	-	-	-	Not Occupied	-	-
25	0.35	GY/WH	3272	Remote Function Actuator Supply Voltage	II	-
26	0.35	L-GN/WH	111	Hazard Switch Signal	II	-
27	0.35	YE/L-GN	3274	Remote Function Actuator Transmit Signal	II	-

K9 Body Control Module X3





Connector Part Information

Harness Type: Steering Column

OEM Connector: HATTPB-25-3C-LM

Service Connector: Service by Harness - See Part Catalog

Description: 25–Way, F 0.64 Series (GN)

Terminal Part Information

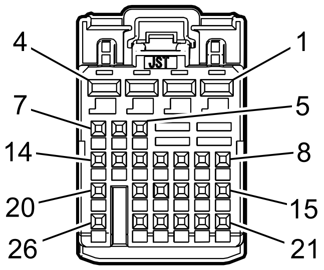
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

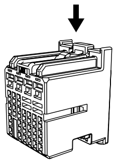
K9 Body Control Module X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GN/GY	3277	Vehicle Anti-Theft System Immobilizer Return	I	-
2	0.5	GN/VT	7533	Linear Interconnect Network Bus 11	I	-
3	0.5	GY/BK	3276	Vehicle Anti-Theft System Immobilizer Supply Voltage	I	-
4	0.5	WH/RD	1444	12 Volt Reference	I	K59, KSG or UEU
5	0.5	VT/YE	4	Accessory Voltage	I	-
6	0.5	VT/BK	3	Run/Crank Ignition 1 Voltage	I	-
7-8	-	-	-	Not Occupied	-	-
9	0.5	BN/GN	1884	Cruise Control Set/Coast/Resume/Accelerate Switch Signal	I	-
10	0.5	BK/GY	6009	Low Reference	I	-
11	0.5	WH	524	Headlamp Dimmer Switch High Beam Signal	I	-
12	0.5	WH/GN	663	Hazard Switch Left Turn Signal	I	-
13	0.5	YE/BU	1714	Windshield Wiper Switch Low Signal	I	-
14	0.5	BU/GY	553	Shift Select Switch Performance Signal	I	-
15	0.5	WH/VT	1020	Off/Run/Crank Voltage	I	without BTM
16	0.5	GY/GN	5737	Adaptive Cruise Control Gap Up/Down Switch Signal	I	-

17	0.5	YE/BN	307	Headlamp Switch Flash To Pass Signal	I	-
18	0.5	GN/WH	3287	Horn Switch Signal	I	-
19	0.5	OG	7527	Linear Interconnect Network Bus 5	I	KA1 or KB6
20	0.5	GY	1715	Windshield Wiper Switch High Signal	I	-
21	0.5	VT/YE	5526	Tap Up/Tap Down Switch Signal	I	-
22	0.5	WH/BK	1073	Ignition Key Resistor Signal	I	without BTM
23	0.5	GY/YE	7595	Auto Wiper On Signal	I	-
24	0.5	VT/BU	664	Hazard Switch Right Turn Signal	I	-
25	0.5	WH/BK	94	Windshield Washer Switch Signal	I	-

K9 Body Control Module X4





Connector Part Information

Harness Type: Body

OEM Connector: 13962485

Service Connector: 13587579

Description: 26-Way F 0.64, 2.8 Series (BK)

Terminal Part Information

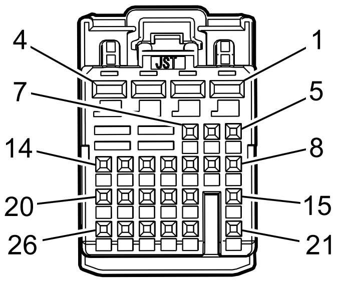
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327199	J-35616-35 (VT)	J-38125-12A	SNAC-A061T-M2.8	20	E	A
II	13582297	J-35616-64B (L-BU)	J-38125-22	Not Available	Not Available	Not Available	Not Available
III	13588907	J-35616-64B (L-BU)	J-38125-22	Not Available	Not Available	Not Available	Not Available

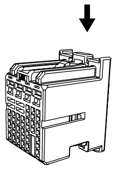
K9 Body Control Module X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	YE	712	Left Headlamp Low Beam Supply Voltage	I	-
2	-	-	-	Not Occupied	-	-
3	0.75	L-GN/VT	1315	Right Front Turn Signal Lamp Supply Voltage	I	-
4	0.5	BN/L-GN	19	Right Rear Stop/Turn Lamp Supply Voltage	I	-
5	0.75	WH/YE	7541	Right Rear Stop Lamp Supply Voltage	III	-
6	0.75	GY/YE	7542	Left Rear Stop Lamp Supply Voltage	III	-
7	0.75	GY/D-BU	7538	Left Front DRL Supply Voltage	III	-
8	0.35	GY/YE	6188	Lift Glass/Trunk Motor Release Control	II	-
9-10	-	-	-	Not Occupied	-	-
11	0.5	VT/WH	5065	Stop Lamp Relay Coil Supply Voltage	II	-
12	-	-	-	Not Occupied	-	-
13	0.5	L-GN/YE	6846	Rear License Lamp Supply Voltage	II	-
14	0.35	BN/GY	2268	Windshield Washer Relay Control	II	-

15	0.35	L-GN/VT	5199	Run/Crank Relay Coil Control	II	-
16	0.35	GY	91	Windshield Wiper Motor Relay Coil Supply Voltage	II	-
17	0.5	BN/L-GN	196	Windshield Wiper Motor Park Switch Signal	II	-
18	0.35	WH/YE	5075	Current Sensor Signal	II	-
19	-	-	-	Not Occupied	-	-
20	0.75	RD/YE	2340	Battery Positive Voltage	III	-
21	0.35	D-BU/VT	5076	Current Sensor Supply Voltage	II	-
22	0.35	VT/YE	5985	Accessory Wakeup Serial Data	II	-
23	0.5	WH/D-BU	5986	Serial Data Communication Enable	II	-
24	0.5	BN/L-GN	109	Hood Ajar Switch Signal	II	-
25	0.35	YE/D-BU	4086	Pushbutton Start Challenge Active Signal	II	-
26	0.75	BK/WH	451	Signal Ground	III	-

K9 Body Control Module X5





Connector Part Information

Harness Type: Body

OEM Connector: 13962299

Service Connector: 13587577

Description: 26-Way F 0.64, 2.8 Series (BN)

Terminal Part Information

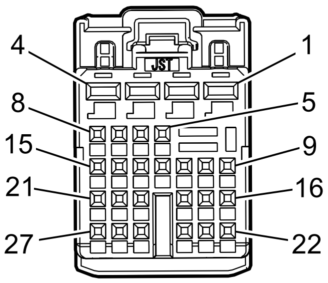
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327199	J-35616-35 (VT)	J-38125-12A	SNAC-A061T-M2.8	20	E	A
II	13582297	J-35616-64B (L-BU)	J-38125-22	Not Available	Not Available	Not Available	Not Available
III	13588907	J-35616-64B (L-BU)	J-38125-22	Not Available	Not Available	Not Available	Not Available

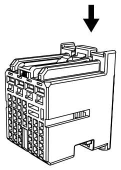
K9 Body Control Module X5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/D-BU	18	Left Rear Stop/Turn Lamp Supply Voltage	I	-
2	0.75	D-BU/WH	1314	Left Front Turn Signal Lamp Supply Voltage	I	-
3	0.75	RD/L-GN	5140	Battery Positive Voltage	I	-
4	0.75	RD/WH	3440	Battery Positive Voltage	I	-
5	-	-	-	Not Occupied	-	-
6	0.35	BK/VT	5077	Current Sensor Low Reference	II	-
7	0.75	D-BU/BN	7539	Right Front DRL Supply Voltage	III	-
8	0.35	D-BU/WH	5186	Left Trailer Turn Signal Lamp	II	-
9	0.35	L-GN/WH	2270	Rear Window Washer Relay Control	II	-
10-11	-	-	-	Not Occupied	-	-
12	0.35	WH/D-BU	6311	Cruise/ETC/TCC Brake Signal	II	-
13	-	-	-	Not Occupied	-	-
14	0.5	VT/BN	300	Run Ignition 3 Voltage	II	-

15	-	-	-	Not Occupied	-	-
16	0.35	VT/YE	3267	Child Security Lock Relay Control	II	-
17	0.35	YE/GY	5187	Right Trailer Turn Signal Lamp	II	-
18	0.35	BN/VT	1969	Headlamp High Beam Relay Control	II	-
19	0.35	BN/WH	28	Horn Relay Control	II	-
20-21	-	-	-	Not Occupied	-	-
22	0.35	D-BU	45	Park Lamp Relay Control	II	-
23	0.35	YE	6812	Out of Park Signal	II	-
24	0.35	WH/VT	860	Front Windshield Wiper Switch High Signal	II	-
25	-	-	-	Not Occupied	-	-
26	0.35	D-BU/BN	38	Backup Lamp Relay Control	II	-

K9 Body Control Module X6





Connector Part Information

Harness Type: Body

OEM Connector: 13962300

Service Connector: 13587576

Description: 27-Way F 0.64, 2.8 Series (L-PU)

Terminal Part Information

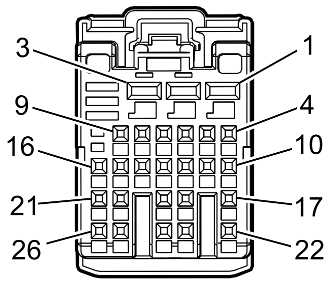
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575871	J-35616-35 (VT)	J-38125-12A	SNAC-A061T-M2.8	20	C	A
II	13582297	J-35616-64B (L-BU)	J-38125-22	Not Available	Not Available	Not Available	Not Available
III	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

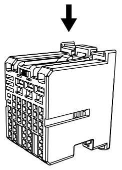
K9 Body Control Module X6

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	D-BU/WH	195	Door Lock Control	I	-
2	1.5	GY/L-GN	3271	Door Lock Control (2)	I	-
3	1.5	BK	1850	Ground	I	-
4	1.5	BN/YE	294	Door Lock Actuator Unlock Control	I	-
5	0.35	VT/GY	1303	Lift Gate Ajar Switch Signal (1)	II	-
6	-	-	-	Not Occupied	-	-
7	0.5	YE/WH	58	Right Cornering Lamp Supply Voltage	II	-
8	0.35	VT/WH	5908	Passenger Seat Vent Motor Control (1)	II	-
9	0.5	L-GN/D-BU	6133	Linear Interconnect Network Bus 2	II	-
10	0.5	L-GN/YE	6134	Linear Interconnect Network Bus 3	II	-
11	-	-	-	Not Occupied	-	-
12	0.5	YE/BK	5356	Left Tail Lamp Outage Detection Signal	II	-
13	0.5	VT/D-BU	7598	Glass Breakage Sensor Signal 2	III	-

14	-	-	-	Not Occupied	-	-
15	0.35	GY/L-GN	6190	Lift Glass/Trunk Exterior Release Signal	II	-
16	0.5	L-GN/BN	6132	Linear Interconnect Network Bus 1	II	-
17	0.35	L-GN/VT	5906	Driver Seat Vent Motor Control (1)	II	-
18-21	-	-	-	Not Occupied	-	-
22	0.5	VT/YE	5357	Right Tail Lamp Outage Detection Signal	II	-
23	-	-	-	Not Occupied	-	-
24	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	II	-
25	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	II	-
26	-	-	-	Not Occupied	-	-
27	0.35	WH/VT	4108	Driver Mode Switch Signal	II	-

K9 Body Control Module X7





Connector Part Information

Harness Type: Body

OEM Connector: 13962301

Service Connector: 13587578

Description: 26-Way F 0.64, 2.8 Series (L-GY)

Terminal Part Information

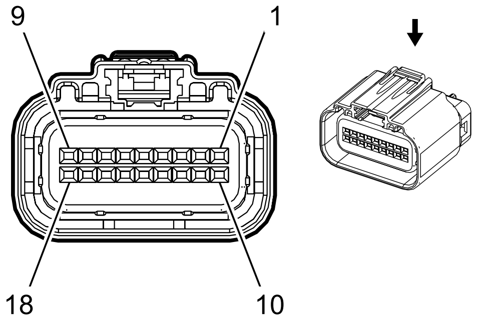
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327199	J-35616-35 (VT)	J-38125-12A	SNAC-A061T-M2.8	20	E	A
II	13582297	J-35616-64B (L-BU)	J-38125-22	Not Available	Not Available	Not Available	Not Available

K9 Body Control Module X7

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY	157	Interior Lamp Control	I	-
2	-	-	-	Not Occupied	-	-
3	0.5	WH/BN	6815	Inadvertent Power Control	I	-
4-5	-	-	-	Not Occupied	-	-
6	0.5	YE/WH	816	Brake Transmission Shift Interlock Solenoid Control	II	-
7	0.5	YE/GY	57	Left Cornering Lamp Supply Voltage	II	-
8	0.5	GY/L-GN	5996	Driver Outside Rear View Mirror Puddle Lamp Supply Voltage	II	-
9	0.5	YE	6817	LED Backlight Dimming Control	II	-
10	0.35	D-BU/BN	7547	Security Lock Relay Control	II	-
11	-	-	-	Not Occupied	-	-
12	0.35	BN/WH	3269	Child Security Lock Motor Status Signal Left Rear	II	-
13	0.35	L-GN/WH	1932	Shift Select Switch Park Signal	II	-
14	-	-	-	Not Occupied	-	-
15	0.35	YE/BN	3265	Child Security Lock Switch Signal	II	-

16	0.5	WH/D-BU	3691	Trailer Brake Apply Signal	II	-
17	-	-	-	Not Occupied	-	-
18	0.35	GY/BK	3268	Child Security Lock Motor Status Signal Right Rear	II	-
19	0.35	GY	156	Courtesy Lamp Switch Signal	II	-
20	-	-	-	Not Occupied	-	-
21	0.35	YE/VT	244	Passenger Door Lock Switch Lock Control	II	-
22	0.35	WH/YE	7557	LED Ambient Lighting Control 1	II	-
23	0.5	L-GN	5060	Low Speed GMLAN Serial Data	II	-
24	0.35	BN/VT	245	Passenger Door Lock Switch Unlock Control	II	-
25	0.35	L-GN	4512	Wireless Charging System Charge Indicator Control	II	-
26	-	-	-	Not Occupied	-	-

K14 Distance Sensing Cruise Control Module (K59)



Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 13798447

Service Connector: Pending

Description: 18-Way F 0.64 GET Series, Sealed (BK)

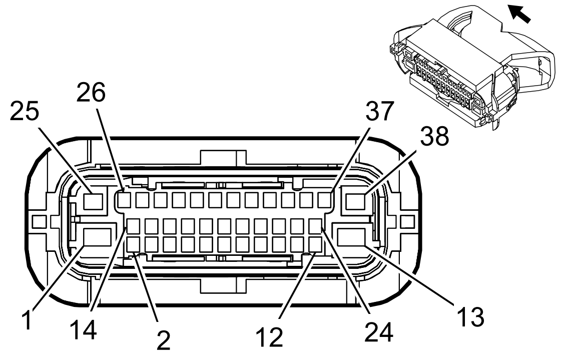
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579977	J-35616-64B (L-BU)	J-38125-553	Not Available	Not Available	K	K

K14 Distance Sensing Cruise Control Module (K59)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/L-GN	3140	Battery Positive Voltage	I	-
2	-	-	-	Not Occupied	-	-
3	0.75	BK	150	Ground	I	-
4	-	-	-	Not Occupied	-	-
5	0.5	WH	6106	High Speed GMLAN Serial Data (-) (2)	I	-
6	0.5	D-BU/YE	6105	High Speed GMLAN Serial Data (+) (2)	I	-
7	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	I	-
8	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	I	-
9	-	-	-	Not Occupied	-	-
10	0.5	WH/D-BU	5986	Serial Data Communication Enable	I	-
11-18	-	-	-	Not Occupied	-	-

K17 Electronic Brake Control Module



Connector Part Information

Harness Type: Chassis

OEM Connector: 15533085

Service Connector: Service by Harness - See Part Catalog

Description: 38-Way F 1.5 CTS, 2.8 MCP, 4.8 MCP Series, Sealed (BK)

Terminal Part Information

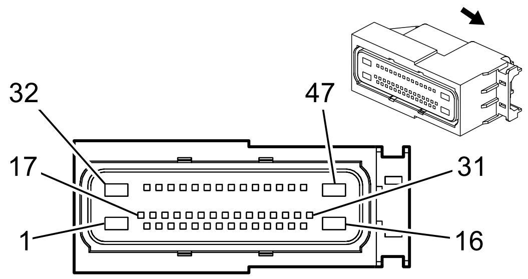
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-16 (L-GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
II	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available
III	Pending	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
IV	Pending	J-35616-42 (RD)	J-38125-11A	Not Available	Not Available	Not Available	Not Available

K17 Electronic Brake Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	5	RD/YE	442	Battery Positive Voltage	I	-
2	0.5	BK/BN	6045	Steering Angle Sensor Low Reference	III	-
3	0.5	GY/YE	7128	Wheel Speed Sensor Supply Voltage Right Rear	II	-
4	0.5	VT	882	Wheel Speed Sensor Signal Right Rear	II	-
5	0.5	D-BU/YE	6105	High Speed GMLAN Serial Data (+) (2)	II	-
6	0.5	WH	6106	High Speed GMLAN Serial Data (-) (2)	II	-
7	-	-	-	Not Occupied	-	-
8	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	II	-
9	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	II	-
10	0.5	GY/BN	7065	Wheel Speed Sensor Supply Voltage Right Front	II	-
11	0.5	YE	872	Wheel Speed Sensor Signal Right Front	II	-
12	-	-	-	Not Occupied	-	-

13	5	BK	2150	Ground	I	-
14-16	-	-	-	Not Occupied	-	-
17	0.5	L-GN/BN	2087	Combined Vehicle Inertial Sensor Supply Voltage	III	-
18	0.5	L-GN/GY	333	Brake Fluid Level Sensor Signal	II	-
19	-	-	-	Not Occupied	-	-
20	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	II	-
21	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	II	-
22-23	-	-	-	Not Occupied	-	-
24	0.5	BK/YE	6032	Brake Vacuum Sensor Low Reference	II	-
25	2.5	RD/VT	1640	Battery Positive Voltage	IV	-
26-27	-	-	-	Not Occupied	-	-
28	0.5	WH/D-BU	5986	Serial Data Communication Enable	II	-
29	0.5	GY/BK	7127	Wheel Speed Sensor Supply Voltage Left Rear	II	-
30	0.5	D-BU	884	Wheel Speed Sensor Signal Left Rear	II	-
31	-	-	-	Not Occupied	-	-
32	0.5	YE/RD	6031	Brake Vacuum Sensor 5 Volt Reference	II	-
33	0.5	L-GN/GY	817	Vehicle Speed Signal	II	-
34	0.5	YE/VT	6030	Brake Vacuum Sensor Signal	II	-
35	0.5	GY/WH	7064	Wheel Speed Sensor Supply Voltage Left Front	II	-
36	0.5	GY	830	Wheel Speed Sensor Signal Left Front	II	-
37	-	-	-	Not Occupied	-	-
38	2.5	BK	2150	Ground	IV	-

K19 Suspension Control Module (Z95)



Connector Part Information

Harness Type: Chassis

OEM Connector: 15491307

Service Connector: 89047377

Description: 47-Way F 0.64, 6.3 Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13582340	J-35616-64B (L-BU)	J-38125-215A	SAITS-A03T-M064	14	9	9
II	13582251	J-35616-42 (RD)	J-38125-553	15476168	5	Not Available	Not Available
III	13582321	J-35616-64B (L-BU)	J-38125-215A	SAITS-A03T-M064	14	9	9
IV	Pending	J-35616-42 (RD)	J-38125-553	15476168	5	F	3

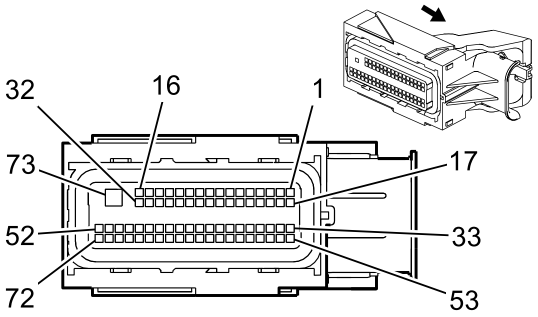
K19 Suspension Control Module (Z95)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.5	BK/L-GN	1209	Left Rear Strut Position Sensor Low Reference	I	-
3	0.5	YE/WH	1213	Right Front Strut Position Sensor Signal	I	-
4	0.5	BK/YE	6077	Real Time Damping Air Pressuer Sensor Low Reference	I	-
5	0.5	BK/YE	1215	Right Rear Strut Position Sensor Low Reference	I	-
6	0.5	BN/WH	1207	Left Front Strut Position Sensor Signal	I	-
7	0.5	YE/L-GN	6075	Real Time Damping Air Pressure Sensor Signal	I	-
8-11	-	-	-	Not Occupied	-	-
12	0.5	D-BU/YE	6105	High Speed GMLAN Serial Data (+) (2)	I	-
13	0.5	D-BU/YE	6105	High Speed GMLAN Serial Data (+) (2)	I	-
14	0.5	WH	6106	High Speed GMLAN Serial Data (-) (2)	I	-
15	0.5	WH	6106	High Speed GMLAN Serial Data (-) (2)	I	-

16	0.75	WH/D-BU	5986	Serial Data Communication Enable	II	-
17	0.5	L-GN/WH	1210	Left Rear Strut Position Sensor Signal	I	-
18	0.5	BK/GY	1212	Right Front Strut Position Sensor Low Reference	I	-
19	-	-	-	Not Occupied	-	-
20	0.5	L-GN/GY	1216	Right Rear Strut Position Sensor Signal	I	-
21	0.5	BK/D-BU	1206	Left Front Strut Position Sensor Low Reference	I	-
22	0.75	WH/L-GN	320	Automatic Level Control Exhaust Solenoid Control	III	-
23	0.5	D-BU/RD	6076	Real Time Damping Air Pressure Sensor 5 Volt Reference	I	-
24	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	I	-
25	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	I	-
26	0.5	VT/D-BU	5956	Leveling Compressor Relay Coil Supply Voltage	I	-
27	0.75	BN	1009	Right Front Strut Motor Decrease Damping Control	III	-
28	0.75	WH/BK	1006	Right Front Strut Motor Increase Damping Control	III	-
29	-	-	-	Not Occupied	-	-
30	0.75	WH/L-GN	1005	Left Front Strut Motor Decrease Damping Control	III	-
31	0.75	WH/GY	1448	Left Front Strut Motor Increase Damping	III	-
32	3	RD/L-GN	2440	Battery Positive Voltage	IV	-
33	0.5	YE/RD	1208	Left Rear Strut Position Sensor Voltage Reference	I	-
34	0.5	BN/RD	1211	Right Front Strut Position Sensor Voltage Reference	I	-
35	0.5	L-GN/RD	1214	Right Rear Strut Position Sensor Voltage Reference	I	-
36	0.5	D-BU/RD	1205	Left Front Strut Position Sensor Voltage Reference	I	-
37-38	-	-	-	Not Occupied	-	-
39	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	I	-
40	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	I	-
41	0.75	WH/D-BU	3261	Automatic Level Control Exhaust Solenoid Supply Voltage	III	-
42	0.75	WH/BK	1013	Left Rear Strut Motor Decrease Damping Control	III	-
43	0.75	BN/VT	1010	Left Rear Strut Motor Increase Damping Control	III	-
44	-	-	-	Not Occupied	-	-
45	0.75	VT	1017	Right Rear Strut Motor Decrease Damping	III	-
46	0.75	YE	1014	Right Rear Strut Motor Increase Damping	III	-
47	4	BK	1750	Ground	IV	-

47	4	BK	1750	Ground	IV	-

K20 Engine Control Module X1



Connector Part Information

Harness Type: Engine

OEM Connector: 13820453

Service Connector: 13587274

Description: 73-Way F 0.64, 2.8 Series, Sealed (BK with BU Terminal Position Assurance)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13588062	J-35616-64B	J-38125-12A	Not Available	Not Available	Not Available	Not Available
II	Pending	J-35616-35 (VT)	J-38125-12A	1326030-8	17	4	D

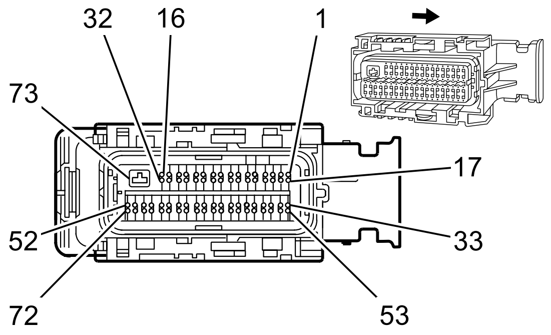
K20 Engine Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.5	D-BU/WH	7446	Fuel Line Pressure Sensor Signal	I	-
3	-	-	-	Not Occupied	-	-
4	0.5	YE/WH	3200	Throttle Inlet Absolute Pressure Sensor Signal	I	-
5	0.5	WH/RD	3201	Throttle Inlet Absolute Pressure Sensor 5V Reference	I	-
6	0.5	L-GN	380	A/C Refrigerant Pressure Sensor Signal	I	-
7	-	-	-	Not Occupied	-	-
8	0.5	BK/YE	7447	Fuel Line Pressure Sensor Low Reference	I	-
9	0.5	D-BU/WH	890	Fuel Tank Pressure Sensor Signal	I	-
10	0.5	YE/RD	2709	Fuel Tank Pressure Sensor 5 Volt Reference	I	-
11-12	-	-	-	Not Occupied	-	-
13	0.5	D-BU/GY	636	Outside Ambient Air Temperature Sensor Signal	I	-
14	0.5	WH/RD	1164	Accelerator Pedal Position 5 Volt Reference (1)	I	-
15	0.5	YE/WH	1161	Accelerator Pedal Position Signal (1)	I	-

16-20	-	-	-	Not Occupied	-	-
21	0.5	BN/RD	2700	A/C Pressure Sensor 5 Volt Reference	I	-
22	0.5	BK/BN	5514	A/C Refrigerant Pressure Sensor Low Reference	I	-
23	-	-	-	Not Occupied	-	-
24	0.5	BN/RD	7445	Fuel Line Pressure Sensor 5V Reference	I	-
25	0.5	D-BU/VT	1589	Primary Fuel Level Sensor Signal	I	-
26	0.5	BK/L-GN	6281	Fuel Level Sensor Low Reference	I	-
27-29	-	-	-	Not Occupied	-	-
30	0.5	BK/D-BU	1271	Accelerator Pedal Position Low Reference (1)	I	-
31	-	-	-	Not Occupied	-	-
32	0.5	WH/GY	459	A/C Compressor Clutch Relay Control	I	-
33	0.5	BN/RD	1274	Accelerator Pedal Position 5 Volt Reference (2)	I	-
34	0.5	L-GN/WH	1162	Accelerator Pedal Position Signal (2)	I	-
35	-	-	-	Not Occupied	-	-
36	0.5	D-BU/BK	7493	High Speed GMLAN Serial Data (+)(3)	I	-
37	0.5	WH	7494	High Speed GMLAN Serial Data (-)(3)	I	-
38	0.5	WH	1579	Fuel Temperature/Composition Signal	I	-
39	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	I	-
40	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	I	-
41-43	-	-	-	Not Occupied	-	-
44	0.5	GY	5660	Fuel Pump Controller Data Out Signal	I	-
45	-	-	-	Not Occupied	-	-
46	0.5	BN/WH	419	Check Engine Indicator Control	I	-
47	0.5	WH	5359	Brake Apply Sensor Supply Voltage	I	-
48	0.5	D-BU/YE	5361	Brake Apply Sensor Signal	I	-
49-50	-	-	-	Not Occupied	-	-
51	0.5	VT/L-GN	439	Run/Crank Ignition 1 Voltage	I	-
52	0.5	RD/BN	440	Battery Positive Voltage	I	-
53	0.5	BK/PU	1272	Accelerator Pedal Position Low Reference (2)	I	-
54-56	-	-	-	Not Occupied	-	-
57	0.5	WH/D-BU	6311	Cruise/ETC/TCC Brake Signal	I	-

58	-	-	-	Not Occupied	-	-
59	0.5	BN/YE	473	High Speed Cooling Fan Relay Control	I	-
60-61	-	-	-	Not Occupied	-	-
62	0.5	VT/D-BU	5291	Powertrain Main Relay Fused Supply (2)	I	-
63	0.5	YE/BK	625	Starter Enable Relay Control	I	-
64-65	-	-	-	Not Occupied	-	-
66	0.5	WH	1310	EVAP Canister Vent Solenoid Control	I	-
67	0.5	VT/D-BU	5292	Powertrain Main Relay Fused Supply (3)	I	-
68	0.5	BK/BN	5360	Brake Apply Sensor Low Reference	I	-
69	-	-	-	Not Occupied	-	-
70	0.5	VT/YE	5985	Accessory Wakeup Serial Data	I	-
71	-	-	-	Not Occupied	-	-
72	0.5	YE	5991	Powertrain Relay Coil Control	I	-
73	2.5	VT/D-BU	5290	Powertrain Main Relay Fused Supply (1)	II	-

K20 Engine Control Module X2



Connector Part Information

Harness Type: Engine

OEM Connector: 13820450

Service Connector: 13505791

Description: 73-Way F 0.64, 2.8 Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13588062	J-35616-64B	J-38125-12A	Not Available	Not Available	Not Available	Not Available
II	Pending	J-35616-35 (VT)	J-38125-12A	1326030-8	17	4	D

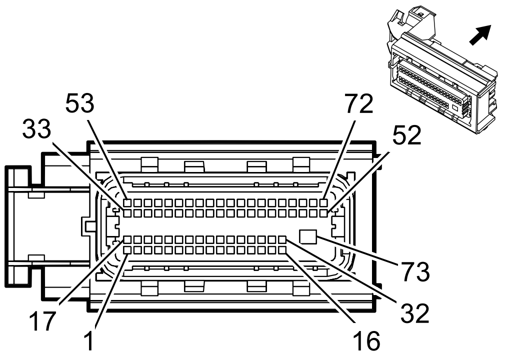
K20 Engine Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-2	-	-	-	Not Occupied	-	-
3	0.5	BK/L-GN	2919	Fuel Rail Pressure Sensor Low Reference	I	-
4-5	-	-	-	Not Occupied	-	-
6	0.5	VT/WH	821	Vehicle Speed Sensor Signal	I	-
7	0.5	BK/L-GN	822	Vehicle Speed Sensor Low Reference	I	-
8	0.5	BN/WH	6354	Output Speed High (Replicated TOS) Input Signal	I	-
9	-	-	-	Not Occupied	-	-
10	0.5	VT/GY	3110	Heated Oxygen Sensor High Signal Bank 1 Sensor (1)	I	-
11	0.5	VT/WH	3210	Heated Oxygen Sensor High Signal Bank 2 Sensor (1)	I	-
12	0.5	VT/D-BU	3120	Heated Oxygen Sensor High Signal Bank 1 Sensor (2)	I	-
13	0.5	VT/L-GN	3220	Heated Oxygen Sensor High Signal Bank 2 Sensor (2)	I	-
14	-	-	-	Not Occupied	-	-
15	0.5	GY/D-BU	7564	Humidity Sensor Signal	I	-
16	0.5	BN/WH	582	Throttle Actuator Control Close	I	-

17	-	-	-	Not Occupied	-	-
18	0.5	BN/RD	2917	Fuel Rail Pressure Sensor (5) Volt Reference	I	-
19	0.5	D-BU/WH	2918	Fuel Rail Pressure Sensor Signal	I	-
20-25	-	-	-	Not Occupied	-	-
26	0.5	WH/BK	3111	Heated Oxygen Sensor Low Signal Bank 1 Sensor (1)	I	-
27	0.5	YE/WH	3211	Heated Oxygen Sensor Low Signal Bank 2 Sensor (1)	I	-
28	0.5	WH/YE	3121	Heated Oxygen Sensor Low Signal Bank 1 Sensor (2)	I	-
29	0.5	YE/D-BU	3221	Heated Oxygen Sensor Low Signal Bank 2 Sensor (2)	I	-
30-31	-	-	-	Not Occupied	-	-
32	0.5	YE	581	Throttle Actuator Control Open	I	-
33	-	-	-	Not Occupied	-	-
34	0.5	BN/RD	2701	Throttle Position Sensor 5 Volt Reference	I	-
35	-	-	-	Not Occupied	-	-
36	0.75	VT/GY	496	Knock Sensor Signal (1)	I	-
37	0.75	WH/GY	1876	Knock Sensor Signal (2)	I	-
38-39	-	-	-	Not Occupied	-	-
40	0.5	VT/D-BU	6091	Crankshaft Position Sensor Replicated Signal	I	-
41	0.5	GY/WH	3113	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor (1)	I	-
42	0.5	GY/WH	3122	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor (2)	I	-
43	0.5	L-GN/WH	432	Manifold Absolute Pressure Sensor Signal	I	-
44	0.5	GY/RD	2704	Manifold Absolute Pressure Sensor 5 Volt Reference	I	-
45-48	-	-	-	Not Occupied	-	-
49	0.5	WH/D-BU	6289	Induction Air Temperature Sensor Signal	I	-
50	-	-	-	Not Occupied	-	-
51	0.5	L-GN/D-BU	428	EVAP Canister Purge Solenoid Control	I	-
52	0.5	L-GN/WH	492	Mass Air Flow Sensor Signal	I	-
53	0.5	BN	25	Charge Indicator Control	I	-
54	0.5	BK/BN	2752	Throttle Position Sensor Low Reference	I	-
55	0.5	GY	23	Generator Field Duty Cycle Signal	I	-
56	0.75	BK/YE	1716	Knock Sensor Low Reference (1)	I	-
57	0.75	BK/GY	2303	Knock Sensor Low Reference (2)	I	-

58	0.5	WH/GY	1786	Transmission Park/Neutral Signal (1)	I	-
59	0.5	D-BU	179	Oil Pump Command Signal	I	-
60	0.5	BN/L-GN	1174	Oil Level Switch Signal	I	-
61	0.5	L-GN/YE	3212	Heated Oxygen Sensor Heater Low Control Bank 2 Sensor (1)	I	-
62	0.5	WH/BN	3223	Heated Oxygen Sensor Heater Low Control Bank 2 Sensor (2)	I	-
63	0.5	BK/L-GN	469	Manifold Absolute Pressure Sensor Low Reference	I	-
64	-	-	-	Not Occupied	-	-
65	0.5	BK/D-BU	61	Outside Ambient Temperature Sensor Low Reference	I	-
66-68	-	-	-	Not Occupied	-	-
69	0.5	WH/YE	3202	Throttle Inlet Absolute Pressure Sensor 5V Return	I	-
70	0.5	D-BU/WH	3630	Throttle Position Sensor (SENT1) Signal	I	-
71-72	-	-	-	Not Occupied	-	-
73	2.5	BK/WH	451	Signal Ground	II	-

K20 Engine Control Module X3



Connector Part Information

Harness Type: Engine

OEM Connector: 13820451

Service Connector: 13587276

Description: 73-Way F 0.64, 2.8 Series, Sealed (BK with GY Terminal Position Assurance)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13588062	J-35616-64B	J-38125-12A	Not Available	Not Available	Not Available	Not Available
II	Pending	J-35616-35 (VT)	J-38125-12A	1326030-8	17	4	D

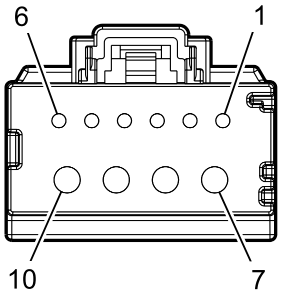
K20 Engine Control Module X3

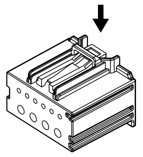
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/BN	331	Oil Pressure Sensor Signal	I	-
2	0.5	WH/RD	2705	Oil Pressure Sensor 5 Volt Reference	I	-
3	0.5	BN/YE	2161	Fuel Rail Pressure Sensor #2 Signal	I	-
4-7	-	-	-	Not Occupied	-	-
8	0.5	D-BU	410	Engine Coolant Temperature Sensor Signal	I	-
9	-	-	-	Not Occupied	-	-
10	0.5	VT/D-BU	6270	Crankshaft 60X Sensor Voltage	I	-
11	0.5	L-GN/D-BU	2123	Ignition Control (3)	I	-
12	0.5	YE/D-BU	2124	Ignition Control (4)	I	-
13	0.5	D-BU/GY	2125	Ignition Control (5)	I	-
14	0.5	BN/D-BU	2126	Ignition Control (6)	I	-
15	0.5	BK/GY	2130	Ignition Control Low Reference Bank 2	I	-
16	0.75	YE	7301	High Pressure Fuel Pump Actuator High - Control	I	-
17	0.5	BK/PU	2755	Oil Pressure Sensor Low Reference	I	-

18-23	-	-	-	Not Occupied	-	-
24	0.5	BK/BN	2761	Coolant Temperature Sensor Low Reference	I	-
25	0.5	BK/PU	6272	Crankshaft 60X Sensor Low Reference	I	-
26	0.5	L-GN	6271	Crankshaft 60X Sensor Signal	I	-
27	0.5	D-BU/WH	2122	Ignition Control (2)	I	-
28	0.5	L-GN/GY	2127	Ignition Control (7)	I	-
29	0.5	VT/WH	2128	Ignition Control (8)	I	-
30	0.5	D-BU/VT	2121	Ignition Control (1)	I	-
31	0.5	BK/D-BU	2129	Ignition Control Low Reference Bank 1	I	-
32	0.75	VT/BK	7300	High Pressure Fuel Pump Actuator Low - Control	I	-
33	0.5	YE/VT	5275	Camshaft Position Intake Sensor (1)	I	-
34	0.5	GY/D-BU	5300	Camshaft Position Intake Sensor Supply Voltage (1)	I	-
35-38	-	-	-	Not Occupied	-	-
39	0.5	VT/BN	5284	Camshaft Phaser Intake Solenoid (1)	I	-
40-42	-	-	-	Not Occupied	-	-
43	0.5	GY	5493	Cylinder Shutoff Solenoid Control (3)	I	-
44	0.5	YE/D-BU	5494	Cylinder Shutoff Solenoid Control (4)	I	-
45	0.75	GY/D-BU	4804	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4	I	-
46	0.75	D-BU	4802	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2	I	-
47	0.75	PU/L-GN	4806	Direct Fuel Injector (DFI) High Voltage Control Cylinder 6	I	-
48	0.75	GY	4808	Direct Fuel Injector (DFI) High Voltage Control Cylinder 8	I	-
49	0.75	L-GN	4803	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3	I	-
50	0.75	YE/GY	4807	Direct Fuel Injector (DFI) High Voltage Control Cylinder 7	I	-
51	0.75	WH/L-GN	4805	Direct Fuel Injector (DFI) High Voltage Control Cylinder 5	I	-
52	0.75	BN	4801	Direct Fuel Injector (DFI) High Voltage Control Cylinder 1	I	-
53	0.5	BK/L-GN	5301	Camshaft Position Intake Sensor Low Reference (1)	I	-
54-58	-	-	-	Not Occupied	-	-
59	0.5	BK/BN	6753	Cam Phaser W Return Low Reference	I	-
60-62	-	-	-	Not Occupied	-	-
63	0.5	D-BU	5491	Cylinder Shutoff Solenoid Control (1)	I	-
64	0.5	L-GN	5492	Cylinder Shutoff Solenoid Control (2)	I	-

64	0.5	L-GN	5492	Cylinder Shutoff Solenoid Control (2)	I	-
65	0.75	D-BU/WH	4904	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4	I	-
66	0.75	D-BU/GY	4902	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2	I	-
67	0.75	PU/GY	4906	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 6	I	-
68	0.75	GY/WH	4908	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 8	I	-
69	0.75	L-GN/GY	4903	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3	I	-
70	0.75	WH/YE	4907	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 7	I	-
71	0.75	L-GN/WH	4905	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 5	I	-
72	0.75	BN/WH	4901	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 1	I	-
73	2.5	BK/WH	451	Signal Ground	II	-

K29 Seat Heating Control Module X1 (KA1)





Connector Part Information

Harness Type: Passenger Seat

OEM Connector: 31372-1000

Service Connector: Service by Harness - See Part Catalog

Description: 10-Way F 1.5, 2.8 Series (BK)

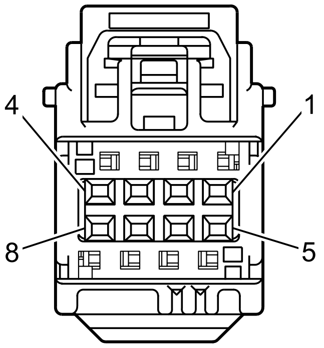
Terminal Part Information

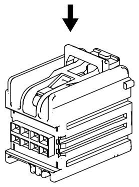
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K29 Seat Heating Control Module X1 (KA1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	RD/L-GN	6140	Battery Positive Voltage	I	-
2	-	-	-	Not Occupied	-	-
3	0.75	WH/BN	2481	Passenger Heated Back Element Supply Voltage	I	-
4	0.75	BN/L-BU	2479	Passenger Heated Seat Element Supply Voltage	I	-
5	0.75	BN	2432	Driver Heated Back Element Supply Voltage	I	-
6	0.75	BN/VT	2077	Driver Heated Seat Element Supply Voltage	I	-
7	-	-	-	Not Occupied	-	-
8	0.75	BK	1250	Ground	I	-
9	-	-	-	Not Occupied	-	-
10	0.75	RD/L-GN	5140	Battery Positive Voltage	I	-

K29 Seat Heating Control Module X2 (KA1)





Connector Part Information

Harness Type: Passenger Seat

OEM Connector: 89047352

Service Connector: 13576542

Description: 8-Way F YESC Kaizen Series (BK)

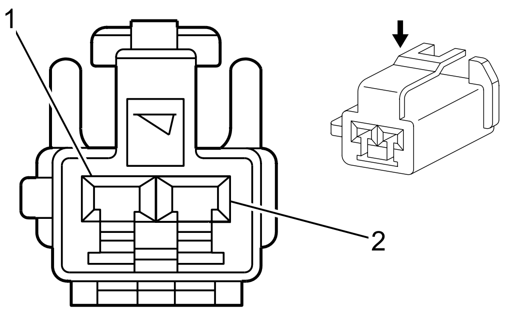
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K29 Seat Heating Control Module X2 (KA1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-5	-	-	-	Not Occupied	-	-
6	0.35	L-GN/L-BU	6133	Linear Interconnect Network Bus 2	I	-
7-8	-	-	-	Not Occupied	-	-

K29R Seat Heating Control Module - Rear X1 (KA6)



Connector Part Information

Harness Type: 2nd Row Seat Left

OEM Connector: 7283-6160

Service Connector: 88953305

Description: 2-Way F 090 Series (NA)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K29R Seat Heating Control Module - Rear X1 (KA6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	RD/L-GN	6140	Battery Positive Voltage	I	-
2-3	-	-	-	Not Occupied	-	-
4	0.75	L-GN/BN	2296	Right Rear Heated Seat Cushion Element Supply Voltage	I	-
5	-	-	-	Not Occupied	-	-
6	0.75	GY	2294	Left Rear Heated Seat Cushion Element Supply Voltage	I	-
7	-	-	-	Not Occupied	-	-
8	0.75	BK	1150	Ground	I	-
9	-	-	-	Not Occupied	-	-
10	0.75	RD/L-GN	5140	Battery Positive Voltage	I	-

Connector Part Information

Harness Type: 2nd Row Seat Left

OEM Connector: 3-023-66-52

Service Connector: Service by Harness - See Part Catalog

Description:

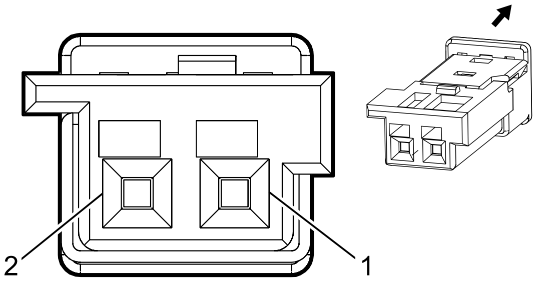
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K29R Seat Heating Control Module - Rear X2 (KA6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-4	-	-	-	Not Occupied	-	-
5	0.35	BK	1150	Ground	I	-
6	0.35	L-GN/L-BU	6133	Linear Interconnect Network Bus 2	I	-

K32 Steering Wheel Heating Control Module X1 (UVD)



Connector Part Information

Harness Type: Steering Wheel

OEM Connector: 13235945

Service Connector: 88988507

Description: 2 F 0.64 Micro-Power Quadlok Series (BK)

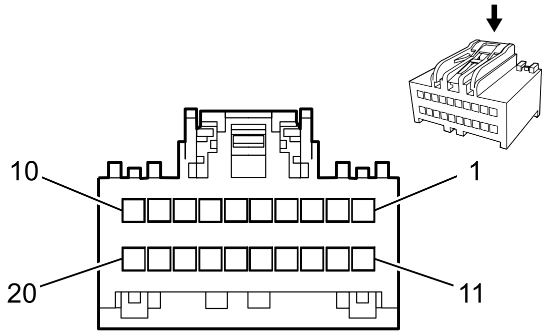
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K32 Steering Wheel Heating Control Module X1 (UVD)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE/GY	5883	Heated Steering Wheel Switch Signal	I	-
2	0.35	BN/WH	5884	Heated Steering Wheel Switch LED Control	I	-

K33 HVAC Control Module X1



Connector Part Information

Harness Type: HVAC

OEM Connector: 13611322

Service Connector: Service by Harness - See Part Catalog

Description: 20-Way F 0.64 Series (GN with WH Terminal Position Assurance)

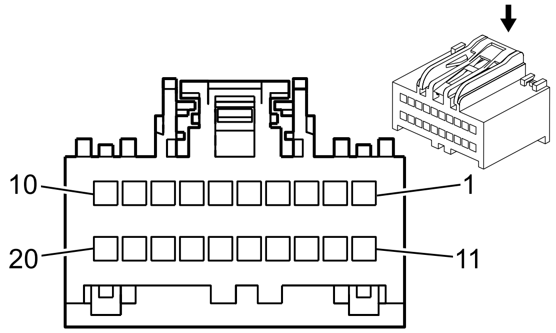
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-64B (L-BU)	Not Available	Not Available	Not Available	Not Available	Not Available

K33 HVAC Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-3	-	-	-	Not Occupied	-	-
4	0.35	D-BU/WH	734	Inside Air Temperature Sensor Signal	I	-
5-12	-	-	-	Not Occupied	-	-
13	0.35	YE/VT	1783	Twilight Sentinel Delay Signal	I	-
14	0.35	YE/VT	1783	Twilight Sentinel Delay Signal	I	-
15-17	-	-	-	Not Occupied	-	-
18	0.35	BN	404	Upper Air Temperature Sensor Signal	I	-
19	0.35	BN/BK	405	Lower Air Temperature Sensor Signal	I	-
20	0.35	GY	590	Solar Sensor Driver Signal	I	-

K33 HVAC Control Module X2



Connector Part Information

Harness Type: HVAC

OEM Connector: 15491305

Service Connector: Service by Harness - See Part Catalog

Description: 20-Way F USCAR 64 Series (BN)

Terminal Part Information

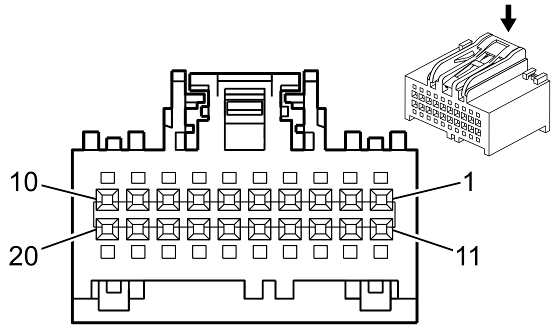
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-64B (L-BU)	Not Available	Not Available	Not Available	Not Available	Not Available

K33 HVAC Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/VT	3340	Battery Positive Voltage	I	-
2	0.35	L-GN	5060	Low Speed GMLAN Serial Data	I	-
3	-	-	-	Not Occupied	-	-
4	0.35	D-GN/YE	7531	Linear Interconnect Network Bus 9	I	-
5–7	-	-	-	Not Occupied	-	-
8	0.35	BK/WH	1851	Signal Ground	I	-
9	0.5	VT/GY	539	Run/Crank Ignition 1 Voltage	I	-
10	0.5	D-BU/YE	7574	Electric Variable Displacement Control	I	-
11	0.5	L-BU/BN	7573	Electric Variable Displacement Supply	I	-
12-14	-	-	-	Not Occupied	-	-
15	0.35	D-BU/GY	754	Blower Motor Speed Control	I	-
16	0.35	L-GN/BK	2211	Rear Blower Motor Speed Control	I	-
17	0.35	GY/RD	598	5 Volt Reference	I	-
18	0.35	BK/YE	1791	Air Temperature Door Control Low Reference	I	-
19	0.35	BN/VT	193	Rear Defog Relay Control	I	-

20	-	-	-	Not Occupied	-	-

K33 HVAC Control Module X3



Connector Part Information

Harness Type: HVAC

OEM Connector: 15489824

Service Connector: Service by Harness - See Part Catalog

Description: 20-Way F 0.64 Series (BK with WH Terminal Position Assurance)

Terminal Part Information

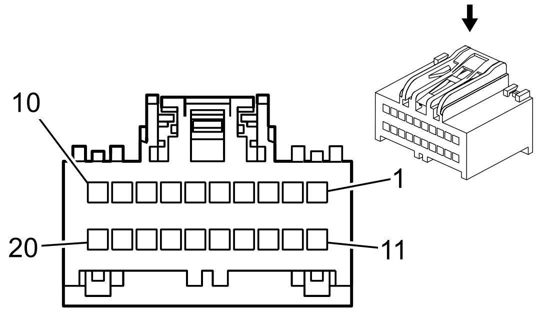
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-64B (L-BU)	Not Available	Not Available	Not Available	Not Available	Not Available

K33 HVAC Control Module X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	D-BU	516	Upper Left Air Temperature Sensor Signal	I	-
2	0.35	YE/BN	2273	Mode Door Control	I	-
3	0.35	WH	119	Mode Door Control	I	-
4	0.35	WH/D-GN	2275	Mode 1 Valve Position Sensor Signal	I	-
5-8	-	-	-	Not Occupied	-	-
9	0.35	BK/YE	407	Sensor Low Reference	I	-
10	-	-	-	Not Occupied	-	-
11	0.35	GY/D-GN	2210	Air Temperature Door Control	I	-
12	0.35	L-BU/BN	1199	Air Temperature Door Control	I	-
13	0.35	D-BU/YE	733	Air Temperature Door Position Signal	I	-
14-15	-	-	-	Not Occupied	-	-
16	0.35	YE/BK	2274	Recirculation Door Control	I	-
17	0.35	D-GN	1614	Recirculation Door Control	I	-
18	0.35	VT/L-GN	1838	Recirculation Door Position Signal	I	-
19	-	-	-	Not Occupied	-	-

20	0.35	GY	6137	EVAP Core Temperature Sensor Signal	I	-

K33 HVAC Control Module X4



Connector Part Information

Harness Type: HVAC

OEM Connector: 15491304

Service Connector: Service by Harness - See Part Catalog

Description: 20-Way F USCAR 64 Series (GY)

Terminal Part Information

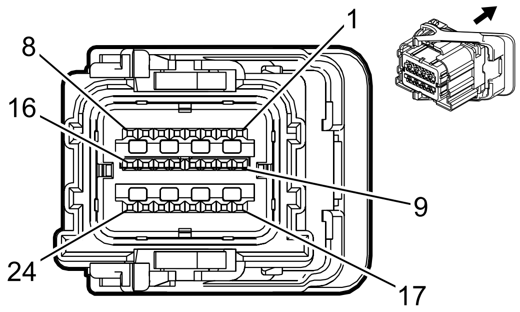
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-64B (L-BU)	Not Available	Not Available	Not Available	Not Available	Not Available

K33 HVAC Control Module X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-4	-	-	-	Not Occupied	-	-
5	0.35	GY/BK	2778	Passenger Air Temperature Motor Control	I	-
6	0.35	WH/BK	1236	Passenger Air Temperature Door Control	I	-
7	0.35	BN/L-BU	1646	Passenger Air Temperature Door Position Signal	I	-
8	-	-	-	Not Occupied	-	-
9	0.35	YE	517	Upper Right Air Temperature Sensor Signal	I	-
10	-	-	-	Not Occupied	-	-
11	0.35	D-GN	518	Lower Left Air Temperature Sensor Signal	I	-
12	0.35	RD	520	Lower Right Air Temperature Sensor Signal	I	-
13	0.35	D-GN/WH	5729	Rear Mode Motor Supply Voltage	I	-
14	0.35	BK/L-GN	5730	Rear Mode Motor Low Reference	I	-
15	0.35	GY	2599	Rear Mode Motor Signal	I	-
16	-	-	-	Not Occupied	-	-
17	0.35	WH/BN	2775	Rear Air Temperature Motor Control	I	-
18	0.35	GY	2614	Rear Air Temperature Door Control	I	-

19	0.35	GY/D-BU	2145	Passenger Air Temperature Switch Signal	I	-
20	-	-	-	Not Occupied	-	-

K36 Inflatable Restraint Sensing and Diagnostic Module X1



Connector Part Information

Harness Type: Body

OEM Connector: 13887360

Service Connector: No SDC/FSU

Description: 24-Way F 0.64 Series, Sealed (YE)

Terminal Part Information

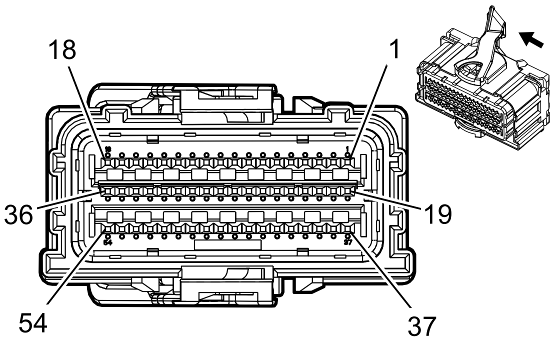
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13580076	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

K36 Inflatable Restraint Sensing and Diagnostic Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	OG/L-GN	3023	Steering Wheel Module Stage 2 High Control	I	-
2	0.35	WH/OG	3022	Steering Wheel Module Stage 2 Low Control	I	-
3	0.35	BN/OG	3020	Steering Wheel Module Stage 1 Low Control	I	-
4	0.35	OG/VT	3021	Steering Wheel Module Stage 1 High Control	I	-
5	0.35	YE/OG	3025	Passenger IP Module Stage 1 High Control	I	-
6	0.35	OG/WH	3024	Passenger IP Module Stage 1 Low Control	I	-
7	0.35	OG/VT	3026	Passenger IP Module Stage 2 Low Control	I	-
8	0.35	GY/OG	3027	Passenger IP Module Stage 2 High Control	I	-
9	0.5	RD/L-GN	4440	Battery Positive Voltage	I	-
10	0.35	VT/WH	5234	Passenger Seat Belt Indicator	I	-
11	0.35	D-BU	2307	Passenger Air Bag On Indicator Control	I	-
12	0.35	L-GN	2308	Passenger Air Bag Off Indicator Control	I	-
13-14	-	-	-	Not Occupied	-	-
15	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	-
16	-	-	-	Not Occupied	-	-

17	0.5	WH/D-BU	5986	Serial Data Communication Enable	I	-
18	0.5	D-BU/YE	6105	High Speed GMLAN Serial Data (+) (2)	I	-
19	0.5	BK/WH	2751	Signal Ground	I	-
20	0.5	WH	6106	High Speed GMLAN Serial Data (-) (2)	I	-
21-24	-	-	-	Not Occupied	-	-

K36 Inflatable Restraint Sensing and Diagnostic Module X2



Connector Part Information

Harness Type: Body

OEM Connector: 13944372

Service Connector: No SDC/FSU

Description: 54-Way F 0.64 Series, Sealed (YE)

Terminal Part Information

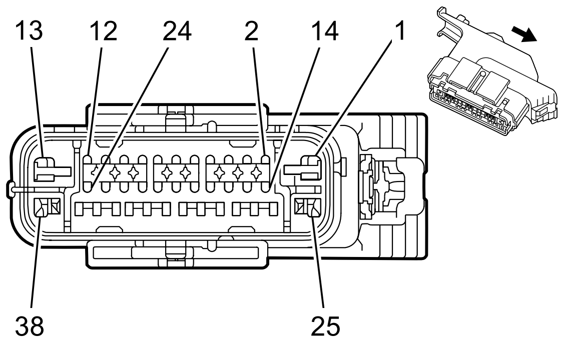
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13580076	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

K36 Inflatable Restraint Sensing and Diagnostic Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BN/WH	4107	Center Side Impact Module High Control	I	-
2	0.35	VT	4106	Center Side Impact Module Low Control	I	-
3-8	-	-	-	Not Occupied	-	-
9	0.35	OG/YE	3481	Driver Seat Belt Anchor Pretensioner High Control	I	-
10	0.35	YE/OG	3482	Driver Seat Belt Anchor Pretensioner Low Control	I	-
11	0.35	GY/OG	3480	Passenger Seat Belt Anchor Pretensioner Low Control	I	-
12	0.35	OG/BN	3479	Passenger Seat Belt Anchor Pretensioner High Control	I	-
13	0.35	OG/D-BU	3068	Driver Side Impact Module High Control	I	-
14	0.35	L-GN/OG	3069	Driver Side Impact Module Low Control	I	-
15	0.35	BN/OG	3067	Passenger Side Impact Module Low Control	I	-
16	0.35	OG/GY	3066	Passenger Side Impact Module High Control	I	-
17	0.35	OG/L-GN	5019	Left Front Head Curtain Module High Control	I	-
18	0.35	VT/OG	5020	Left Front Head Curtain Module Low Control	I	-
19	0.35	OG/L-GN	2132	Left Front Side Impact Sensing Module Signal	I	-
20	0.35	BK/OG	6628	Left Front Side Impact Sensing Module Low Reference	I	-

21	0.35	BK/OG	6629	Right Front Side Impact Sensing Module Low Reference	I	-
22	0.35	BN/OG	2134	Right Front Side Impact Sensing Module Signal	I	-
23	0.35	OG/YE	354	Left Front Discriminating Sensor Signal	I	-
24	0.35	BK/OG	5045	Left Front Discriminating Sensor Low Reference	I	-
25	0.35	BK/OG	5600	Right Front Discriminating Sensor Low Reference	I	-
26	0.35	OG/L-GN	1409	Right Front Discriminating Sensor Signal	I	-
27	0.35	OG/D-BU	6620	Left Middle Side Impact Sensing Module Signal	I	-
28	0.35	BK/OG	6621	Left Middle Side Impact Sensing Module Low Reference	I	-
29	0.35	BK/OG	6625	Right Middle Side Impact Sensing Module Low Reference	I	-
30	0.35	OG/VT	6624	Right Middle Side Impact Sensing Module Signal	I	-
31-36	-	-	-	Not Occupied	-	-
37	0.35	OG/WH	3477	Driver Seat Belt Retractor Pretensioner High Control	I	-
38	0.35	GY/OG	3478	Driver Seat Belt Retractor Pretensioner Low Control	I	-
39	0.35	WH/OG	3476	Passenger Seat Belt Retractor Pretensioner Low Control	I	-
40	0.35	OG/L-GN	3475	Passenger Seat Belt Retractor Pretensioner High Control	I	-
41	0.35	OG/BN	238	Driver Seat Belt Switch Signal	I	-
42	0.35	OG/L-GN	5055	Driver Seat Position Switch Signal	I	-
43	0.35	BK/OG	1363	Driver Seat Belt Switch Low Reference	I	-
44	0.35	BK/OG	1361	Passenger Seat Belt Switch Low Reference	I	-
45	0.35	OG/VT	1362	Passenger Seat Belt Switch Signal	I	-
46	0.35	OG/D-BU	5056	Passenger Seat Position Switch Signal	I	-
47-52	-	-	-	Not Occupied	-	-
53	0.35	OG/GY	5021	Right Front Head Curtain Module High Control	I	-
54	0.35	WH/OG	5022	Right Front Head Curtain Module Low Control	I	-

K38 Chassis Control Module (IK9)



Connector Part Information

Harness Type: Chassis

OEM Connector: 15532448

Service Connector: Service by Harness - See Part Catalog

Description: 38-Way F 0.64, 280 GT Series, Sealed (BK)

Terminal Part Information

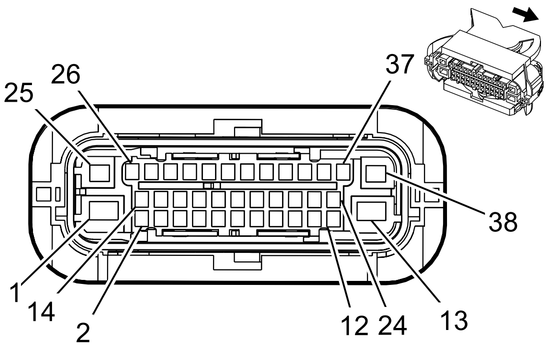
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-553	15392777	23	D	5
II	13582340	J-35616-64B (L-BU)	J-38125-215A	SAITS-A03T-M064	14	9	9
III	13582321	J-35616-64B (L-BU)	J-38125-215A	SAITS-A03T-M064	14	9	9

K38 Chassis Control Module (IK9)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	RD/VT	1940	Battery Positive Voltage	I	-
2	-	-	-	Not Occupied	-	-
3	0.5	BN	3891	Aero Shutter Control	II	-
4	0.5	GY	3890	Aero Shutter Control 2	II	-
5	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	II	-
6	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	II	-
7	-	-	-	Not Occupied	-	-
8	0.5	VT/YE	5985	Accessory Wakeup Serial Data	II	-
9-10	-	-	-	Not Occupied	-	-
11	0.5	GY	3890	Aero Shutter Control 2	II	-
12	0.5	BN	3891	Aero Shutter Control	II	-
13-16	-	-	-	Not Occupied	-	-
17	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	II	-

18	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	II	-
19-20	-	-	-	Not Occupied	-	-
21	0.75	PU/L-GN	439	Run/Crank Ignition 1 Voltage	III	-
22-24	-	-	-	Not Occupied	-	-
25	2.5	BK	2150	Ground	I	-
26-38	-	-	-	Not Occupied	-	-

K38 Chassis Control Module (JL1 or Z85)



Connector Part Information

Harness Type: Chassis

OEM Connector: 15533088

Service Connector: Service by Harness - See Part Catalog

Description: 38-Way F 1.5 CTS, 2.8 MCP, 4.8 MCP Series, Sealed (BK)

Terminal Part Information

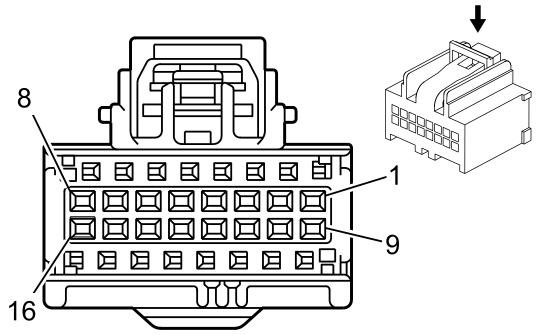
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

K38 Chassis Control Module (JL1 or Z85)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	RD/WH	2040	Battery Positive Voltage	I	-
2	0.5	L-GN/RD	1214	Right Rear Strut Position Sensor Voltage Reference	I	-
3	0.5	BK/YE	1215	Right Rear Strut Position Sensor Low Reference	I	-
4	0.5	L-GN/GY	1216	Right Rear Strut Position Sensor Signal	I	-
5	0.5	YE/RD	1208	Left Rear Strut Position Sensor Voltage Reference	I	-
6	0.5	BK/L-GN	1209	Left Rear Strut Position Sensor Low Reference	I	-
7	0.5	L-GN/WH	1210	Left Rear Strut Position Sensor Signal	I	-
8	0.5	D-BU/RD	6076	Real Time Damping Air Pressure Sensor 5 Volt Reference	I	-
9	0.5	BK/YE	6077	Real Time Damping Air Pressuer Sensor Low Reference	I	-
10	0.5	YE/L-GN	6075	Real Time Damping Air Pressure Sensor Signal	I	-
11-12	-	-	-	Not Occupied	-	-
13	0.75	BK	1750	Ground	I	-
14	0.5	VT/YE	5985	Accessory Wakeup Serial Data	I	-
15	-	-	-	Not Occupied	-	-
16	0.5	D-BU/RD	7632	Integrated Trailer Brake Controller Switch 5 Volt Reference	I	-

17	0.5	D-BU	47	Trailer Auxiliary Supply Voltage	I	-
18	0.5	BN	7634	Integrated Trailer Brake Contoller Redundant Manual Apply Signal	I	-
19	0.5	BK/BN	7631	Integrated Trailer Brake Controller Switch Low Reference	I	-
20	0.5	YE	7635	Integrated Trailer Brake Controller Manual Apply Signal	I	-
21	0.5	L-GN/BK	7633	Integrated Trailer Brake Controller User Gain Signal	I	-
22	0.5	YE/BK	2224	Trailer Brake Enable Signal	I	-
23	0.5	WH/BK	2223	Trailer Brake Control Signal	I	-
24	-	-	-	Not Occupied	-	-
25	0.75	PU/L-GN	439	Run/Crank Ignition 1 Voltage	I	-
26	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	I	-
27	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	I	-
28	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	I	-
29	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	I	-
30	0.5	GY	2225	Trailer Brake Current Feedback Signal	I	-
31-34	-	-	-	Not Occupied	-	-
35	0.5	BN/YE	1112	Damping Relay Coil Control	I	-
36	0.75	WH/L-GN	320	Automatic Level Control Exhaust Solenoid Control	I	-
37-38	-	-	-	Not Occupied	-	-

K39 Liftgate Control Module X1 (TB5)



Connector Part Information

Harness Type: Liftgate

OEM Connector: 15491285

Service Connector: 15136073

Description: 16-Way F Kaizen 64 Series (BK)

Terminal Part Information

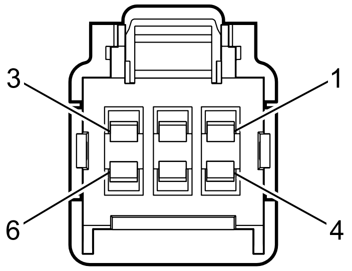
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

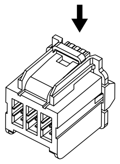
K39 Liftgate Control Module X1 (TB5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN	6112	Power Lift Gate On/Off Switch Signal	I	-
2	-	-	-	Not Occupied	-	-
3	0.35	L-GN	3033	Lift Gate Shut Face Switch Signal	I	-
4	0.35	VT/L-GN	3987	Cinch Latch Lift Gate Signal	I	-
5	0.35	D-BU/BK	6000	Lift Gate Ajar Switch Signal (2)	I	-
6	0.35	YE	3988	Detent Lift Gate Signal	I	-
7	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	-
8	0.35	WH/BK	6126	Lift Gate Object Sensor 2 Signal	I	-
9	0.35	L-GN	6127	Lift Gate Unlatch Switch Signal	I	-
10	0.5	YE/D-BU	5797	Rear Closure Handle Switch Open Signal	I	-
11	-	-	-	Not Occupied	-	-
12	0.5	GY/BK	6113	Rear Lift Gate Open/Close Switch Signal	I	-
13	-	-	-	Not Occupied	-	-
14	0.35	YE/D-BU	5797	Rear Closure Handle Switch Open Signal	I	-
15	0.5	L-GN/BN	4118	Linear Interconnect Network Bus 18	I	-

16	0.35	BK/VT	5801	Lift Gate Object Sensor Low Reference	I	-

K39 Liftgate Control Module X2 (TB5)





Connector Part Information

Harness Type: Liftgate

OEM Connector: 13796274

Service Connector: 13587181

Description: 6-Way F 280 GT Series (BK)

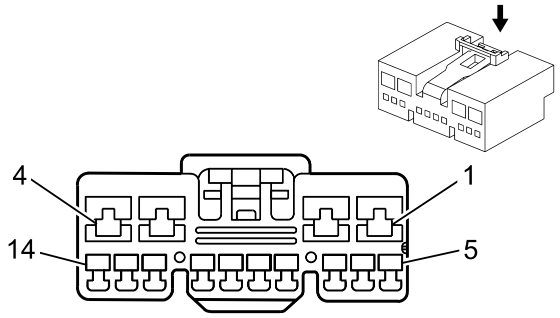
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327130	J-35616-4A (PU)	J-38125-553	15304711	8	2	A
II	13327131	J-35616-4A (PU)	J-38125-553	15304713	19	F	D
III	13575503	J-35616-4A (PU)	J-38125-553	15304711	8	E	A

K39 Liftgate Control Module X2 (TB5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	D-BU/GY	5791	Lift Gate Cinch Latch Motor Close Control	I	-
2	1	BN	5790	Lift Gate Cinch Latch Motor Open Control	I	-
3	3	RD/GY	7040	Battery Positive Voltage	II	-
4	0.5	RD/D-BU	840	Battery Positive Voltage	III	-
5	-	-	-	Not Occupied	-	-
6	3	BK	1450	Ground	II	-

K39 Liftgate Control Module X3 (TB5)



Connector Part Information

Harness Type: Liftgate

OEM Connector: 15466088

Service Connector: 19179972

Description: 14-Way F 0.64, 2.8 YESC Series (L-GY)

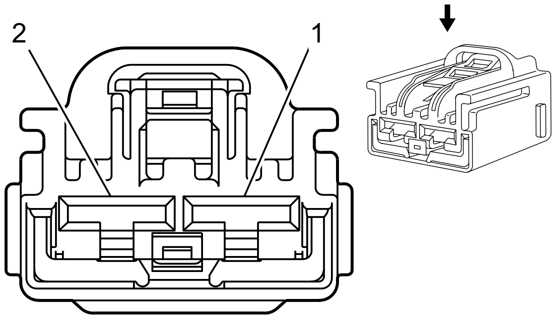
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579912	J-35616-35 (VT)	J-38125-11A	7116-4112-02	9	C	D
II	13575847	J-35616-64B (L-BU)	J-38125-553	7116-4720-02	14	H	H
III	13575838	J-35616-64B (L-BU)	J-38125-553	7116-4721-02	14	J	J

K39 Liftgate Control Module X3 (TB5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2	WH	5798	Lift Gate Open/Close Motor Open Control	I	-
2	2	BN/WH	5799	Lift Gate Open/Close Motor Close Control	I	-
3-7	-	-	-	Not Occupied	-	-
8	0.35	BN/RD	5803	Lift Gate Position Sensor Voltage Reference	II	-
9	0.35	D-BU/WH	5805	Lift Gate Position Sensor Signal (1)	II	-
10	0.35	BN/YE	5806	Lift Gate Position Sensor Signal (2)	II	-
11	0.35	BK/L-GN	5804	Lift Gate Position Sensor Low Reference	II	-
12	-	-	-	Not Occupied	-	-
13	0.5	GY	3986	Cinch Latch Lift Gate Stall Motor Release Signal	III	-
14	-	-	-	Not Occupied	-	-

K40D Seat Memory Control Module - Driver X1 (A45 or ULT)



Connector Part Information

Harness Type: Driver Seat Cushion

OEM Connector: 7283-6458-40

Service Connector: 88988507

Description: 2-Way F 6.3 Series (L-GY)

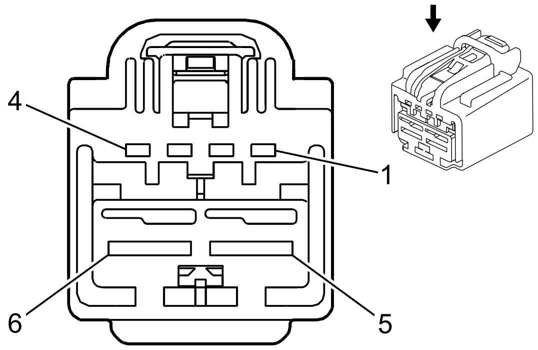
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K40D Seat Memory Control Module - Driver X1 (A45 or ULT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75 0.75	RD/BN RD/RD	1140 1140	Battery Positive Voltage Battery Positive Voltage	I	-
2	2.5 2.5	RD/YE RD/RD	5040 5040	Battery Positive Voltage Battery Positive Voltage	I	-

K40D Seat Memory Control Module - Driver X2 (A45 or ULT)



Connector Part Information

Harness Type: Driver Seat Cushion

OEM Connector: 15226104

Service Connector: 88988512

Description: 6-Way F YESC Kaizen Series (BK)

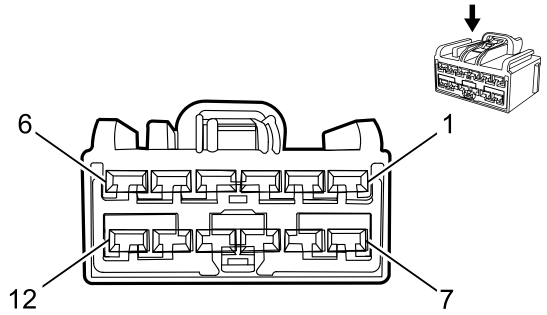
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327109	J-35616-2A (GY)	J-38125-553	12191812	19	E	C
II	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K40D Seat Memory Control Module - Driver X2 (A45 or ULT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5 0.5	L-GN L-GN/L-GN	5060 5060	Low Speed GMLAN Serial Data Low Speed GMLAN Serial Data	I	-
2	-	-	-	Not Occupied	-	-
3	0.5 0.5	L-GN/WH L-GN/L-GN	7530 7530	Linear Interconnect Network Bus 8 Linear Interconnect Network Bus 8	I	-
4	0.35	L-GN/L-GN	3758	Linear Interconnect Network Bus 13	I	-
5	2.5 2.5	BK BK/BK	1150 1150	Ground Ground	II	-
6	-	-	-	Not Occupied	-	-

K40D Seat Memory Control Module - Driver X3 (A45 or ULT)



Connector Part Information

Harness Type: Driver Seat Cushion

OEM Connector: 13280238

Service Connector: 13580444

Description: 12-Way F 2.8 Kaizen Series (L-GY)

Terminal Part Information

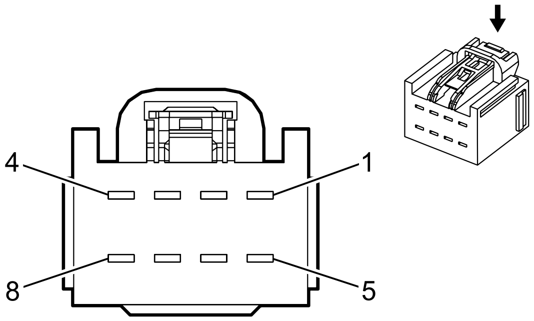
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K40D Seat Memory Control Module - Driver X3 (A45 or ULT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5 1.5	L-GN/YE L-GN/L-GN	276 276	Driver Power Seat Recline Motor Forward Control Driver Power Seat Recline Motor Forward Control	I	-
2	1.5 1.5	L-BU/YE L-BU/L-BU	277 277	Driver Power Seat Recline Motor Rearward Control Driver Power Seat Recline Motor Rearward Control	I	-
3	1.5 1.5	L-GN/BN L-GN/L-GN	286 286	Driver Power Seat Front Vertical Motor Up Control Driver Power Seat Front Vertical Motor Up Control	I	-
4	1.5 1.5	L-BU/VT L-BU/L-BU	287 287	Driver Power Seat Front Vertical Motor Down Control Driver Power Seat Front Vertical Motor Down Control	I	-
5	1.5 1.5	YE YE/YE	282 282	Driver Power Seat Rear Vertical Motor Up Control Driver Power Seat Rear Vertical Motor Up Control	I	-
6	1.5 1.5	GY/L-BU GY/GY	283 283	Driver Power Seat Rear Vertical Motor Down Control Driver Power Seat Rear Vertical Motor Down Control	I	-
7	1.5	YE/BN	768	Driver Power Seat Lumbar Motor Up Control	I	-
8	1.5	YE/L-BU	767	Driver Power Seat Lumbar Motor Down Control	I	-
9	1.5	L-BU	611	Driver Power Seat Lumbar Motor Forward Control	I	-
10	1.5	VT	610	Driver Power Seat Lumbar Motor Rearward Control	I	-
11	1.5	YE/L-BU	285	Driver Power Seat Horizontal Motor Forward Control	I	-

	1.5	YE/YE	285	Driver Power Seat Horizontal Motor Forward Control		
12	1.5 1.5	GY/L-GN GY/GY	284 284	Driver Power Seat Horizontal Motor Rearward Control Driver Power Seat Horizontal Motor Rearward Control	I	-

K40D Seat Memory Control Module - Driver X4 (A45 or ULT)



Connector Part Information

Harness Type: Driver Seat Cushion

OEM Connector: 7283-3243-40

Service Connector: 13581036

Description: 8-Way F 2.8 Series (L-GY)

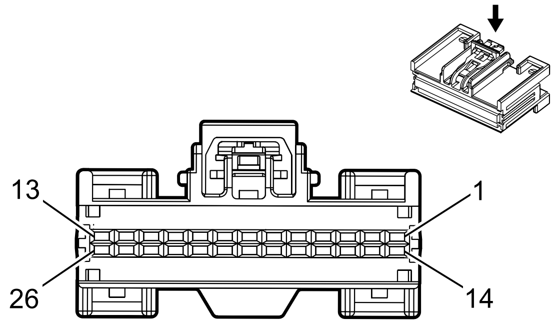
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K40D Seat Memory Control Module - Driver X4 (A45 or ULT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5 1.5	L-GN/VT L-GN/L-GN	5130 5130	Adjustable Pedal Actuator Forward Control Adjustable Pedal Actuator Forward Control	I	-
2	1.5 1.5	YE YE/YE	5129 5129	Adjustable Pedal Actuator Rearward Control Adjustable Pedal Actuator Rearward Control	I	-
3-8	-	-	-	Not Occupied	-	-

K40D Seat Memory Control Module - Driver X5 (A45 or ULT)



Connector Part Information

Harness Type: Driver Seat Cushion

OEM Connector: 7287-2043-30

Service Connector: No SDC/FSU

Description: 26-Way F 0.64 Series (BK)

Terminal Part Information

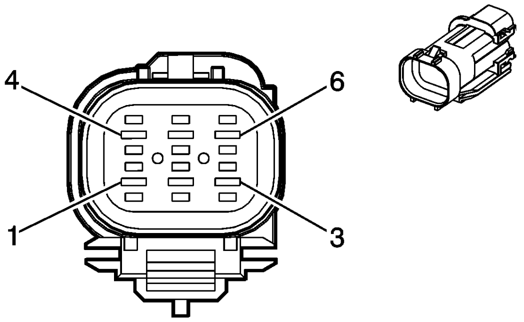
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K40D Seat Memory Control Module - Driver X5 (A45 or ULT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5 0.5	WH/RD WH/WH	3298 3298	Memory Sensor High Reference (2) Memory Sensor High Reference (2)	I	-
2-3	-	-	-	Not Occupied	-	-
4	0.5 0.5	BN BN/BN	3038 3038	Right Rear Haptic Seat Motor Control Right Rear Haptic Seat Motor Control	I	-
5	0.5 0.5	YE/BN YE/YE	3037 3037	Left Rear Haptic Seat Motor Control Left Rear Haptic Seat Motor Control	I	-
6	0.5 0.5	BK/GY BK/BK	6206 6206	Memory Sensor Low Reference Memory Sensor Low Reference	I	-
7	0.5	YE/BN	1522	Power Seat Horizontal Forward Switch Signal	I	-
8	0.5	GY/L-GN	1523	Power Seat Horizontal Rearward Switch Signal	I	-
9	0.5	L-GN/BN	1518	Power Seat Front Vertical Up Switch Signal	I	-
10	0.5	L-BU/VT	1520	Power Seat Front Vertical Down Switch Signal	I	-
11	0.5 0.5	L-GN L-GN/L-GN	569 569	Memory Seat Horizontal Motor Position Sensor Signal Memory Seat Horizontal Motor Position Sensor Signal	I	-
12	0.5 0.5	BN/WH BN/BN	557 557	Memory Seat Front Vertical Motor Position Sensor Signal Memory Seat Front Vertical Motor Position Sensor Signal	I	-

13	0.5 0.5	WH/RD WH/WH	6207 6207	Memory Sensor High Reference Memory Sensor High Reference	I	-
14	0.5	YE	1065	Driver Seat Lumbar Forward Switch Signal	I	-
15	0.5	L-BU/VT	1064	Driver Seat Lumbar Rearward Switch Signal	I	-
16	0.5	WH	1066	Driver Seat Lumbar Up Switch Signal	I	-
17	0.5	YE/BK	1067	Driver Seat Lumbar Down Switch Signal	I	-
18	-	-	-	Not Occupied	-	-
19	0.5	YE	1519	Power Seat Rear Vertical Up Switch Signal	I	-
20	0.5	YE/L-BU	1521	Power Seat Rear Vertical Down Switch Signal	I	-
21	0.5	GY/BK	1269	Power Seat Recline Forward Switch Signal	I	-
22	0.5	L-GN/GY	1270	Power Seat Recline Rearward Switch Signal	I	-
23-24	-	-	-	Not Occupied	-	-
25	0.5 0.5	YE/L-BU YE/YE	568 568	Memory Seat Rear Vertical Motor Position Sensor Signal Memory Seat Rear Vertical Motor Position Sensor Signal	I	-
26	0.5 0.5	WH/BK WH/WH	570 570	Driver Memory Seat Recline Motor Position Sensor Signal Driver Memory Seat Recline Motor Position Sensor Signal	I	-

K40D Seat Memory Control Module - Driver X6 (A45 or ULT)



Connector Part Information

Harness Type: Driver Seat Cushion

OEM Connector: 1452324-1

Service Connector: 93185233

Description: 6-Way M 2.8 Series, Sealed (BK)

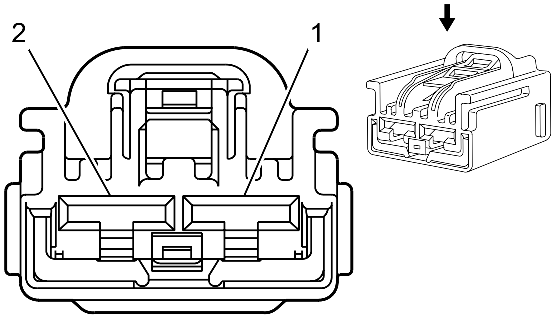
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K40D Seat Memory Control Module - Driver X6 (A45 or ULT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-3	-	-	-	Not Occupied	-	-
4	0.35 0.35	L-BU L-BU/L-BU	5952 5952	Adjustable Pedal Position Sensor Brake Signal Adjustable Pedal Position Sensor Brake Signal	I	-
5	-	-	-	Not Occupied	-	-
6	0.35 0.35	L-GN/GY L-GN/L-GN	5286 5286	Adjustable Pedal Switch Forward Signal Adjustable Pedal Switch Forward Signal	I	-
7	0.35 0.35	WH/GY WH/WH	5285 5285	Adjustable Pedal Switch Rearward Signal Adjustable Pedal Switch Rearward Signal	I	-
8-10	-	-	-	Not Occupied	-	-
11	0.35 0.35	BK/L-BU BK/BK	5978 5978	Memory Switch Low Reference Memory Switch Low Reference	I	-
12	0.35 0.35	WH WH/WH	615 615	Memory Seat Switch Signal (1) Memory Seat Switch Signal (1)	I	-
13-14	-	-	-	Not Occupied	-	-
15	0.35 0.35	L-GN/L-BU L-GN/L-GN	614 614	Memory Seat Switch Set Signal Memory Seat Switch Set Signal	I	-

K40P Seat Memory Control Module - Passenger X1 (AG2 or ULT)



Connector Part Information

Harness Type: Passenger Seat

OEM Connector: 7283-6458-40

Service Connector: 88988507

Description: 2-Way F 6.3 Series (L-GY)

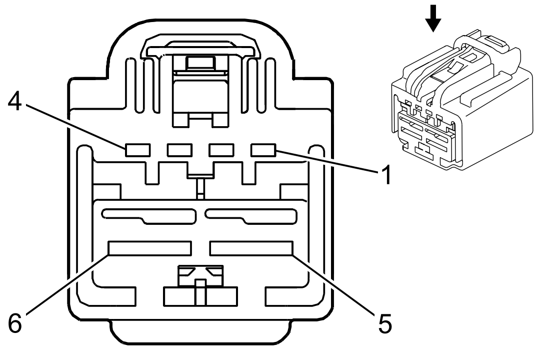
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K40P Seat Memory Control Module - Passenger X1 (AG2 or ULT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	RD/RD	1140	Battery Positive Voltage	I	-
2	2.5	RD/RD	1440	Battery Positive Voltage	I	-

K40P Seat Memory Control Module - Passenger X2 (AG2 or ULT)



Connector Part Information

Harness Type: Passenger Seat

OEM Connector: 15226104

Service Connector: 88988512

Description: 6-Way F YESC Kaizen Series (BK)

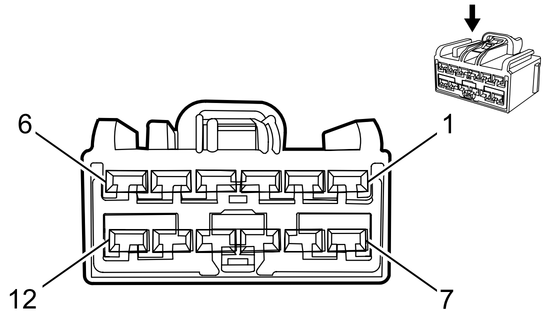
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327109	J-35616-2A (GY)	J-38125-553	12191812	19	E	C
II	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K40P Seat Memory Control Module - Passenger X2 (AG2 or ULT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN/L-GN	5060	Low Speed GMLAN Serial Data	I	-
2-3	-	-	-	Not Occupied	-	-
4	0.35	L-GN/L-GN	3758	Linear Interconnect Network Bus 13	I	-
5	2.5	BK/BK	1250	Ground	II	-
6	-	-	-	Not Occupied	-	-

K40P Seat Memory Control Module - Passenger X3 (AG2 or ULT)



Connector Part Information

Harness Type: Passenger Seat

OEM Connector: 13280238

Service Connector: 13580444

Description: 12-Way F 2.8 Kaizen Series (L-GY)

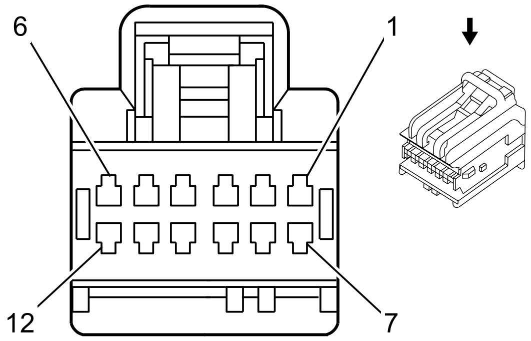
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K40P Seat Memory Control Module - Passenger X3 (AG2 or ULT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	L-BU/L-BU	77	Passenger Power Seat Recline Motor Rearward	I	-
2	1.5	L-GN/L-GN	76	Passenger Power Seat Recline Motor Forward	I	-
3	1.5	L-GN/L-GN	298	Passenger Power Seat Front Vertical Motor Down Control	I	-
4	1.5	L-GN/L-GN	297	Passenger Power Seat Front Vertical Motor Up Control	I	-
5	1.5	L-BU/L-BU	289	Passenger Power Seat Rear Vertical Motor Down Control	I	-
6	1.5	L-GN/L-GN	288	Passenger Power Seat Rear Vertical Motor Up Control	I	-
7-10	-	-	-	Not Occupied	-	-
11	1.5	YE/YE	290	Passenger Power Seat Horizontal Motor Rearward Control	I	-
12	1.5	YE/YE	296	Passenger Power Seat Horizontal Motor Forward Control	I	-

K41 Front and Rear Parking Assist Control Module X1 (UD5 or UD7)



Connector Part Information

Harness Type: Body

OEM Connector: 13551678

Service Connector: 89047364

Description: 12-Way F 0.64 Series (BK)

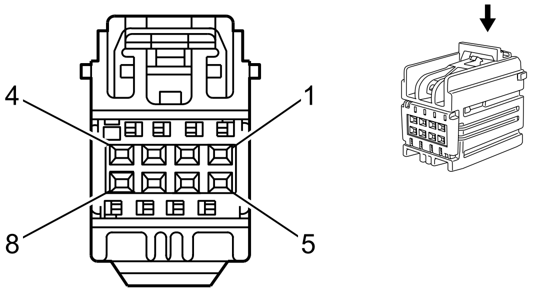
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579945	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
II	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

K41 Front and Rear Parking Assist Control Module X1 (UD5 or UD7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	RD/L-GN	3140	Battery Positive Voltage	I	-
2-3	-	-	-	Not Occupied	-	-
4	0.35	L-GN	5060	Low Speed GMLAN Serial Data	II	-
5-6	-	-	-	Not Occupied	-	-
7	0.5	BK/WH	2751	Signal Ground	II	-
8-12	-	-	-	Not Occupied	-	-

K41 Front and Rear Parking Assist Control Module X2 (UD5 or UD7)



Connector Part Information

Harness Type: Body

OEM Connector: 13551679

Service Connector: 19115653

Description: 8-Way F YESC Kaizen Series (L-GY)

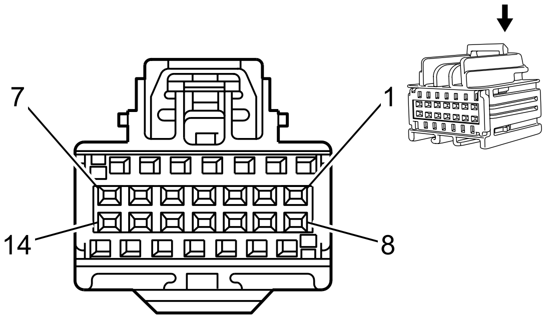
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

K41 Front and Rear Parking Assist Control Module X2 (UD5 or UD7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE	2375	Left Rear Corner Object Sensor Signal	I	-
2	-	-	-	Not Occupied	-	-
3	0.5	YE/D-BU	2376	Left Rear Middle Object Sensor Signal	I	-
4	0.5	BN/WH	2374	Object Sensor Supply Voltage	I	-
5	0.5	YE/VT	2378	Right Rear Corner Object Sensor Signal	I	-
6	-	-	-	Not Occupied	-	-
7	0.5	YE/WH	2377	Right Rear Middle Object Sensor Signal	I	-
8	0.5	BK/GY	2379	Object Sensor Low Reference	I	-

K41 Front and Rear Parking Assist Control Module X3 (UD5 or UD7)



Connector Part Information

Harness Type: Body

OEM Connector: 15491263

Service Connector: 15127038

Description: 14-Way F Kaizen 64 Series (BU)

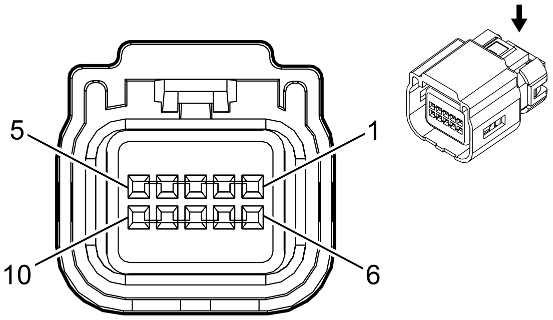
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

K41 Front and Rear Parking Assist Control Module X3 (UD5 or UD7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/VT	5213	Front Parking Left/Right/Mid Sensor	I	-
2-3	-	-	-	Not Occupied	-	-
4	0.5	VT/WH	5215	Front Parking Left Corner Sensor	I	-
5	0.5	YE/GY	5216	Front Parking Left Mid Sensor	I	-
6-7	-	-	-	Not Occupied	-	-
8	0.5	BK/D-BU	5214	Front Parking Sensor Low Reference	I	-
9-10	-	-	-	Not Occupied	-	-
11	0.5	WH/GY	5217	Front Parking Right Corner Sensor	I	-
12	0.5	VT/GY	5218	Front Parking Right Mid Sensor	I	-
13-14	-	-	-	Not Occupied	-	-

K43 Power Steering Control Module X1



Connector Part Information

Harness Type: Power Steering Jumper

OEM Connector: 28249219

Service Connector: Service by Harness - See Part

Description: 10 (F)

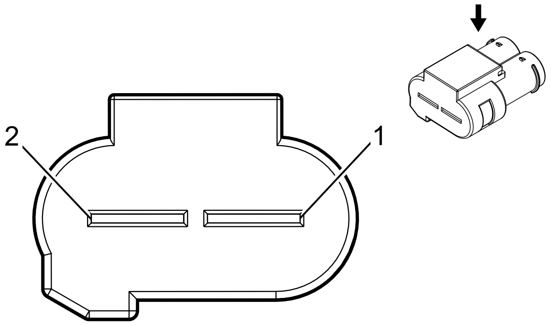
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K43 Power Steering Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GN/BU	2501	High Speed GMLAN Serial Data (-) (1)	I	-
2	0.5	BK	2500	High Speed GMLAN Serial Data (+) (1)	I	-
3	0.5	YE/BU	6106	High Speed GMLAN Serial Data (-) (2)	I	-
4	0.5	BK/OG	6105	High Speed GMLAN Serial Data (+) (2)	I	-
5	0.5	GY	5986	Serial Data Communication Enable	I	-
6	0.5	BK/GN	2501	High Speed GMLAN Serial Data (-) (1)	I	-
7	0.5	WH/BN	2500	High Speed GMLAN Serial Data (+) (1)	I	-
8	0.5	VT	6106	High Speed GMLAN Serial Data (-) (2)	I	-
9	0.5	BN/YE	6105	High Speed GMLAN Serial Data (+) (2)	I	-
10		–		Not Used	I	–

K43 Power Steering Control Module X2



Connector Part Information

Harness Type: Power Steering Jumper

OEM Connector: 28208864

Service Connector: Service by Harness - See Part

Description: 2 (F)

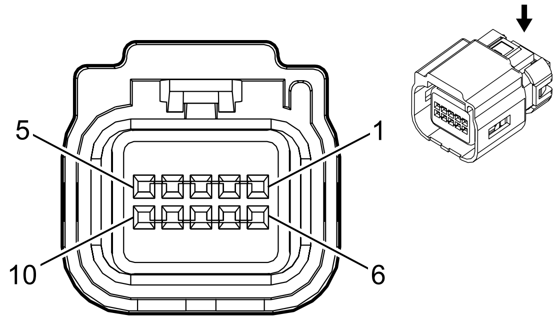
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K43 Power Steering Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	20	RD	842	Battery Positive Voltage	I	-
2	20	BK	350	Ground	I	-

K43 Power Steering Control Module X3



Connector Part Information

Harness Type: Power Steering Jumper

OEM Connector: 28249220

Service Connector: Service by Harness - See Part

Description: 10 F 0.64 Kaizen Series, Sealed (GY)

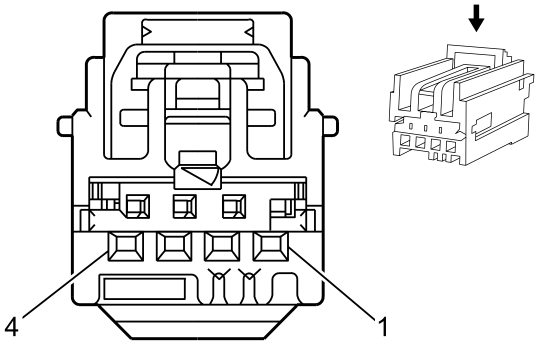
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K43 Power Steering Control Module X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD	–	5-Volt Reference	I	-
2	0.5	TN	–	SDA	I	-
3	0.5	BU/GN	–	TRQ2 PWM Q2	I	-
4	0.5	BK	–	Low Reference	I	-
5	0.5	GN	–	TOR IN 1	I	-
6	0.5	VT	–	SCL	I	-
7	0.5	WH	–	TRQ1 PWM Q1	I	-
8	-	-	-	Not Occupied	-	-
9	0.5	GN/BU	–	TOR IN 2	I	-
10	-	-	-	Not Occupied	-	-

K53D Seat Blower Assembly - Driver Back (KB6)



Connector Part Information

Harness Type: Driver Seat Cushion

OEM Connector: 7283-9016-30

Service Connector: 19149305

Description: 4-Way F (BK)

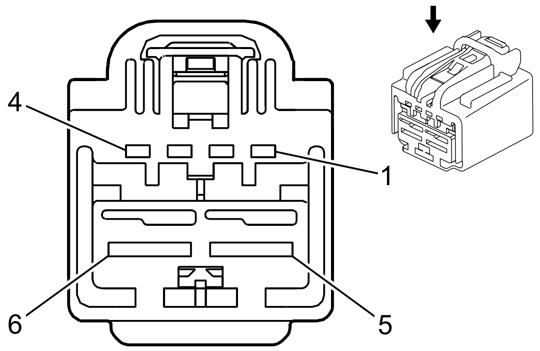
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K53D Seat Blower Assembly - Driver Back (KB6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	RD/RD	5140	Battery Positive Voltage	I	-
2	0.75	BN/BN	2077	Driver Heated Seat Element Supply Voltage	I	-
3	0.35	L-GN/L-GN	5906	Driver Seat Vent Motor Control (1)	I	-
4	0.75	BK/BK	1150	Ground	I	-

K53P Seat Blower Assembly - Passenger Back (KB6)



Connector Part Information

Harness Type: Passenger Seat Back

OEM Connector: 15226104

Service Connector: 88988512

Description: 6-Way F YESC Kaizen Series (BK)

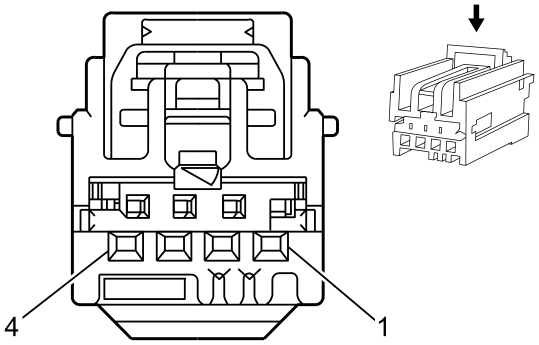
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K53P Seat Blower Assembly - Passenger Back (KB6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	RD/RD	6140	Battery Positive Voltage	I	-
2	0.75	WH/WH	2481	Passenger Heated Back Element Supply Voltage	I	-
3	0.35	VT/VT	5908	Passenger Seat Vent Motor Control (1)	I	-
4	0.75	BK/BK	1250	Ground	I	-
5-6	-	-	-	Not Occupied	-	-

K55D Seat Blower Assembly - Driver Cushion (KB6)



Connector Part Information

Harness Type: Driver Seat Cushion

OEM Connector: 7283-9016-30

Service Connector: 19149305

Description: 4-Way F (BK)

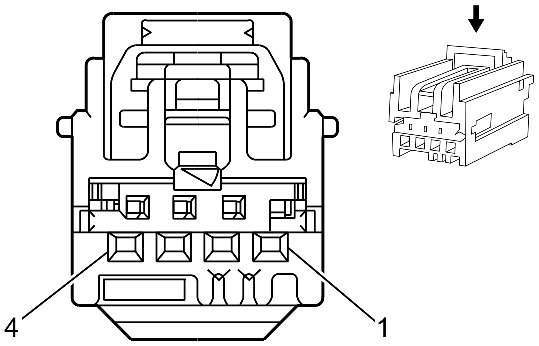
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K55D Seat Blower Assembly - Driver Cushion (KB6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	RD/L-GN	5140	Battery Positive Voltage	I	-
2	0.75	BN/VT	2077	Driver Heated Seat Element Supply Voltage	I	-
3	0.35	L-GN/VT	5906	Driver Seat Vent Motor Control (1)	I	-
4	0.75	BK	1150	Ground	I	-

K55P Seat Blower Assembly - Passenger Cushion (KB6)



Connector Part Information

Harness Type: Passenger Seat

OEM Connector: 7283-9016-30

Service Connector: 19149305

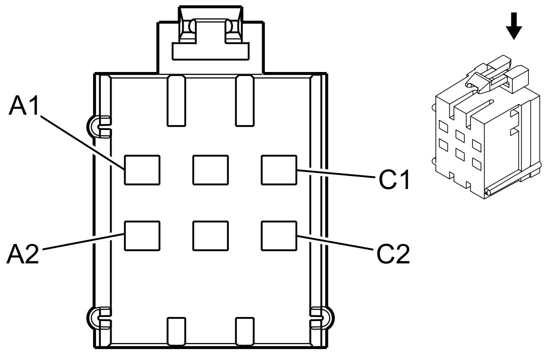
Description: 4-Way F (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K55P Seat Blower Assembly - Passenger Cushion (KB6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75 0.75	RD/L-GN RD/RD	6140 6140	Battery Positive Voltage Battery Positive Voltage	I	-
2	0.75 0.75	BN/L-BU BN/BN	2479 2479	Passenger Heated Seat Element Supply Voltage Passenger Heated Seat Element Supply Voltage	I	-
3	0.35 0.35	VT/WH VT/VT	5908 5908	Passenger Seat Vent Motor Control (1) Passenger Seat Vent Motor Control (1)	I	-
4	0.75 0.75	BK BK/BK	1250 1250	Ground Ground	I	-



Connector Part Information

Harness Type: Overhead Console

OEM Connector: 12110541

Service Connector: 12110541

Description: 6-Way F 280 Metri Pack Series, Flexlock (BK)

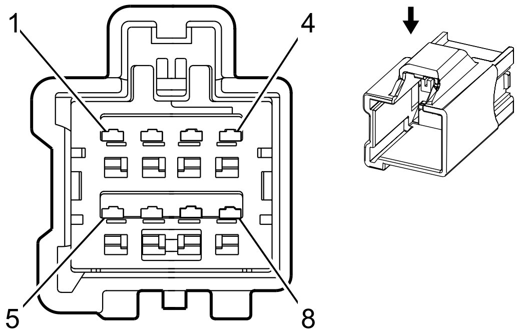
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575719	J-35616-4A (PU)	J-38125-553	12110844	4	E	4
II	13579923	J-35616-4A (PU)	J-38125-553	12110842	4	A	B
III	13575719	J-35616-4A (PU)	J-38125-553	12110844	4	E	A

KR58 Roof Beacon Relay (TRW)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	0.35	BK	1050	Ground	I	-
A2	2.5	L-GN/D-BU	5989	Emergency Lamp Relay Contact Control	II	-
B	-	-	-	Not Occupied	-	-
C1	2.5	RD/L-GN	3140	Battery Positive Voltage	II	-
C2	0.5	WH/BK	5990	Emergency Lamp Switch Signal	III	-
D-F	-	-	-	Not Occupied	-	-

K60 Steering Column Lock Module (BTM)



Connector Part Information

Harness Type: Steering Column

OEM Connector: 13580897

Service Connector: 19153162

Description: 8–Way M, 1.5 Kaizen YESC Series (L-GY)

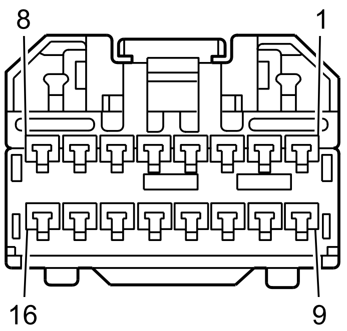
Terminal Part Information

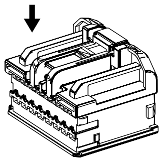
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K60 Steering Column Lock Module (BTM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	I	-
2	0.35	BU/VT	5904	Steering Column Lock Status Signal	I	-
3	0.75	BU/VT	807	OFF / Accessory Voltage	I	-
4	0.35	GN/VT	1601	Steering Column Lock Signal	I	-
5	0.75	RD/GY	4140	Battery Positive Voltage	I	-
6	0.75	BK	1050	Ground	I	-
7	0.75	BK	1050	Ground	I	-
8	0.35	GN	5060	Low Speed GMLAN Serial Data	I	-

K69 Transfer Case Control Module X1 (NP0 or NQH)





Connector Part Information

Harness Type: Brake Clutch Jumper

OEM Connector: 13547237

Service Connector: 88988778

Description: 16-Way F 1.5 Series (GY)

Terminal Part Information

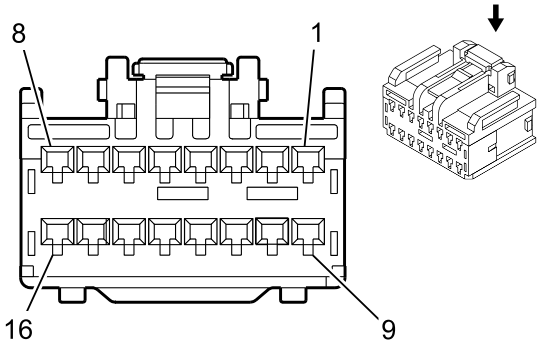
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575790	J-35616-2A (GY)	J-38125-553	15496302	5	E	A
II	13575790	J-35616-2A (GY)	J-38125-553	8240-0127	22	E	C
III	13327201	J-35616-2A (GY)	J-38125-553	8240-0128	22	C	A

K69 Transfer Case Control Module X1 (NP0 or NQH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/BK	7478	Rotary Position Sensor Return	I	-
2	0.5	WH/L-GN	7479	Rotary Position Sensor Signal	II	-
3	0.35	YE	7474	Incremental Encoder Direction Signal	II	-
4	0.5	GY/BK	1570	Front Axle Actuator Control	I	-
5	0.35	D-BU/GY	7473	Incremental Encoder Impulse Signal	II	-
6	0.35	GY/RD	6029	Four Wheel Drive Mode Switch 5 Volt Reference	I	-
7	0.35	D-BU/YE	1693	Four Wheel Drive Switch Signal	I	-
8	-	-	-	Not Occupied	-	-
9	0.5	WH/RD	7477	Rotary Position Sensor Supply 5V	II	-
10	0.35	WH/L-GN	7475	Incremental Encoder Sensor (8V) Supply	II	-
11	0.35	VT	7476	Incremental Encoder Sensor Return	II	-
12	0.5	YE/WH	1695	Four Wheel Drive Wheel Lock Indicator	I	-
13	1	YE/BN	1569	Transfer Case Lock Solenoid Control	III	-

14-16	-	-	-	Not Occupied	-	-

K69 Transfer Case Control Module X2 (NP0 or NQH)



Connector Part Information

Harness Type: Brake Clutch Jumper

OEM Connector: 15489823

Service Connector: 15134091

Description: 16-Way F 1.5 Series (BK)

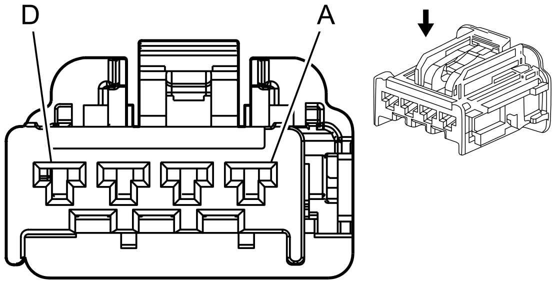
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575790	J-35616-2A (GY)	J-38125-553	15496302	5	E	A

K69 Transfer Case Control Module X2 (NP0 or NQH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-2	-	-	-	Not Occupied	-	-
3	0.35	VT/WH	1565	4 LO Indicator Control	I	-
4	0.35	VT/L-GN	1739	Run/Crank Ignition 1 Voltage	I	-
5	-	-	-	Not Occupied	-	-
6	0.35	VT/YE	5985	Accessory Wakeup Serial Data	I	-
7	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	I	-
8	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	I	-
9-10	-	-	-	Not Occupied	-	-
11	0.35	GY/L-GN	1561	AWD Indicator Control	I	-
12	0.35	BN	1560	Neutral Indicator Control	I	-
13	0.35	L-GN/BK	1563	2 HI Indicator Control	I	-
14	0.35	BN/BK	1566	4 HI Indicator Control	I	-
15	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	I	-
16	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	I	-

K69 Transfer Case Control Module X3 (NP0 or NQH)



Connector Part Information

Harness Type: Brake Clutch Jumper

OEM Connector: 15466671

Service Connector: 19149301

Description: 4-Way F 280 GT Series (L-GY)

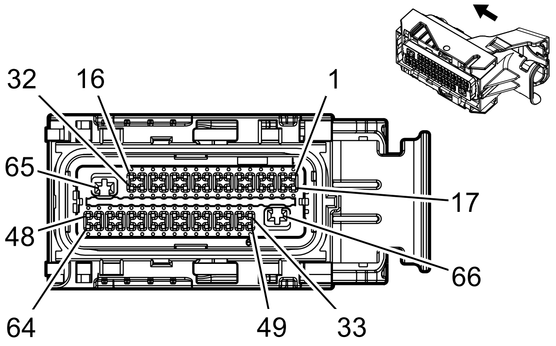
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575756	J-35616-4A (PU)	J-38125-553	15304713	19	F	D
II	13327131	J-35616-4A (PU)	J-38125-553	15304713	19	F	D

K69 Transfer Case Control Module X3 (NP0 or NQH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	4	YE/VT	1553	Transfer Case Motor Counter Clockwise Control	I	-
B	4	YE/GY	1552	Transfer Case Motor Clockwise Control	I	-
C	3	RD/GY	1342	Battery Positive Voltage	II	-
D	3	BK	550	Ground	II	-

K71 Transmission Control Module (M5U)



Connector Part Information

Harness Type: Engine

OEM Connector: 13965710

Service Connector: Pending

Description: 66-Way F 0.64, 2.8 Series, Sealed (BK with BK Terminal Position Assurance)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13588062	J-35616-64B	J-38125-12A	Not Available	Not Available	Not Available	Not Available
II	13575796	J-35616-4A (PU)	J-38125-11A	7116-4151-02	9	Not Available	Not Available

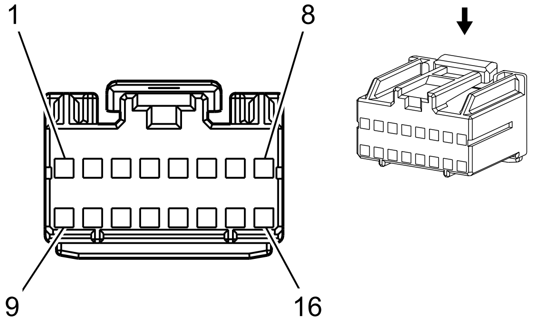
K71 Transmission Control Module (M5U)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/D-BU	4507	Transmission Clutch H Control	I	-
2	0.5	D-BU	6401	Clutch B Control	I	-
3	0.5	GY/L-GN	6403	Clutch D Control	I	-
4-6	-	-	-	Not Occupied	-	-
7	0.5	YE/L-GN	4170	Transmission Sensor B Voltage Reference 9V	I	-
8	0.5	YE/D-BU	4171	Transmission Sensor A Voltage Reference 9V	I	-
9-12	-	-	-	Not Occupied	-	-
13	0.5	L-GN/VT	4510	Transmission Intermediate Speed Signal	I	-
14	0.5	GY/D-BU	6358	Output Speed Signal	I	-
15	0.5	L-GN/YE	6353	Input Speed Signal	I	-
16	-	-	-	Not Occupied	-	-
17	0.5	WH	4508	Transmission Clutch G Control	I	-
18	0.5	BN	6400	Clutch A Control	I	-
19	0.5	GY	6402	Clutch C Control	I	-

20	0.5	YE/BN	6404	Clutch E Control	I	-
21	0.5	L-GN/WH	6380	TCC On/Off Solenoid A Control	I	-
22	0.5	YE/BN	6210	TCC On/Off Solenoid B Control	I	-
23-24	-	-	-	Not Occupied	-	-
25	0.5	BK/GY	3927	IMS Mode Switch Return	I	-
26-27	-	-	-	Not Occupied	-	-
28	0.5	BK/BN	586	Transmission Oil Temperature Sensor Low Reference	I	-
29-32	-	-	-	Not Occupied	-	-
33	0.75	L-GN/GY	6387	Transmission High Side Driver #1 Signal Driver	I	-
34	-	-	-	Not Occupied	-	-
35	0.5	VT/BK	2139	Run/Crank Ignition 1 Voltage	I	-
36	-	-	-	Not Occupied	-	-
37	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	I	-
38	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	I	-
39-46	-	-	-	Not Occupied	-	-
47	0.5	GY/YE	4169	PRNDL S Signal	I	-
48	-	-	-	Not Occupied	-	-
49	0.75	GY/BN	6388	Transmission High Side Driver #2 Signal	I	-
50	-	-	-	Not Occupied	-	-
51	0.5	VT/YE	5985	Accessory Wakeup Serial Data	I	-
52	-	-	-	Not Occupied	-	-
53	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	I	-
54	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	I	-
55-58	-	-	-	Not Occupied	-	-
59	0.5	GY/WH	4168	PRNDL P Signal	I	-
60	0.5	WH/BK	5983	PRNDL C Signal	I	-
61	0.5	GY/BN	5982	PRNDL B Signal	I	-
62	0.5	VT/WH	5981	PRNDL A Signal	I	-
63	0.5	BN/WH	585	Transmission Oil Temperature Sensor Signal	I	-
64	-	-	-	Not Occupied	-	-
65	0.75	BK/WH	451	Signal Ground	II	-

66	0.75	RD/L-GN	1840	Battery Positive Voltage	II	-

K73 Telematics Communication Interface Control Module X1 (UE1)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15431362

Service Connector: 15306351

Description: 16-Way F Micro Pack 100A Series (NA)

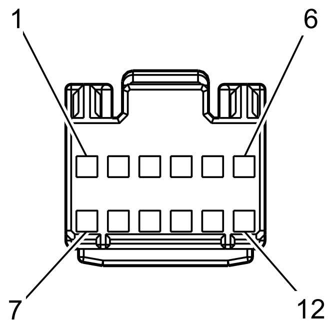
Terminal Part Information

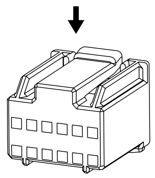
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575546	J-35616-16 (L-GN)	J-38125-559	15445905	23	J	J

K73 Telematics Communication Interface Control Module X1 (UE1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	-
2	0.35	BN/WH	2517	Keypad Red LED	I	-
3	0.35	YE/VT	2516	Keypad Green LED	I	-
4-5	-	-	-	Not Occupied	-	-
6	0.35	L-GN/BK	2515	Keypad Supply Voltage	I	-
7	0.35	BK	2550	Ground	I	-
8-9	-	-	-	Not Occupied	-	-
10	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	I	-
11	0.35	L-GN/WH	2514	Keypad Signal	I	-
12	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	I	-
13-14	-	-	-	Not Occupied	-	-
15	0.35	RD/D-BU	3240	Battery Positive Voltage	I	-
16	-	-	-	Not Occupied	-	-

K73 Telematics Communication Interface Control Module X2 (UE1)





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15431365

Service Connector: 88952886

Description: 12-Way F Micro Pack 100A Series (NA)

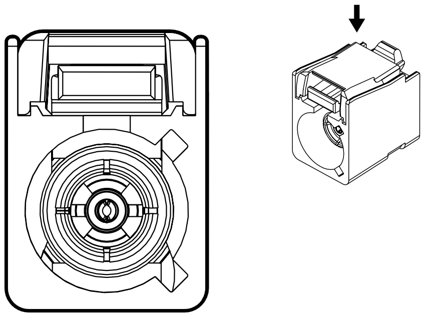
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575546	J-35616-16 (L-GN)	J-38125-559	15445905	23	J	J

K73 Telematics Communication Interface Control Module X2 (UE1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE	658	Cellular Telephone Voice Signal	I	-
2	0.35	BK/YE	659	Cellular Telephone Voice Low Reference	I	-
3	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	I	-
4	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	I	-
5	0.5	Bare	1792	Drain Wire	I	-
6	0.35	GY/YE	5149	Voice Recognition Audio Signal	I	-
7	0.35	WH/D-BU	5986	Serial Data Communication Enable	I	-
8	0.35	Bare	1782	Drain Wire	I	-
9	0.35	D-BU	655	Cellular Telephone Microphone Signal	I	-
10	0.35	BK/BN	654	Cellular Telephone Microphone Low Reference	I	-
11	-	-	-	Not Occupied	-	-
12	0.35	BK/GY	5152	Voice Recognition Audio Low Reference	I	-

K73 Telematics Communication Interface Control Module X5 (UE1 with CV3 or VV4)



Connector Part Information

Harness Type: Body COAX

OEM Connector: 13585574

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 1-Way F Coax Type (PU)

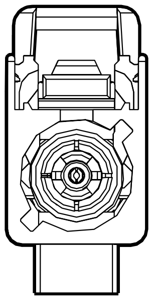
Terminal Part Information

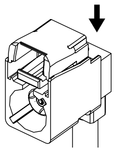
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K73 Telematics Communication Interface Control Module X5 (UE1 with CV3 or VV4)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	COAX	—	Coaxial Antenna Cell Phone Signal	I	—

K73 Telematics Communication Interface Control Module X7 (UE1 with CV3)





Connector Part Information

Harness Type: Body COAX

OEM Connector: 13585574

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 1-Way F Coax Type (BU)

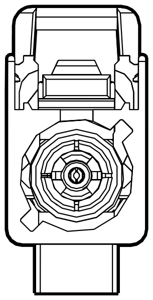
Terminal Part Information

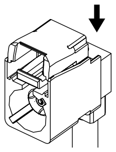
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K73 Telematics Communication Interface Control Module X7 (UE1 with CV3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	COAX	—	Coaxial Antenna GPS Signal	I	—

K73 Telematics Communication Interface Control Module X7 (UE1 with VV4 without CV3)





Connector Part Information

Harness Type: Body COAX

OEM Connector: 13591276

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 1-Way F Coax Type (BN)

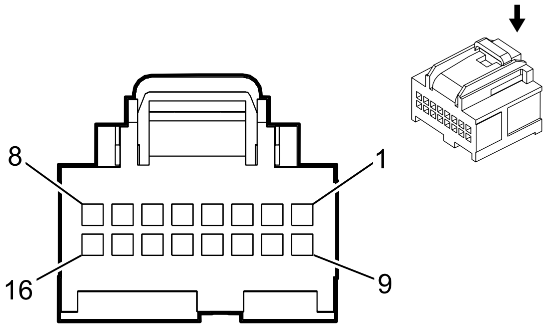
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K73 Telematics Communication Interface Control Module X7 (UE1 with VV4 without CV3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	COAX	—	Coaxial Antenna GPS Signal	I	—

K74 Human Machine Interface Control Module X1 (IO5 or IO6)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13819409

Service Connector: 13582576

Description: 16-Way F 0.64 OCS Series (BK)

Terminal Part Information

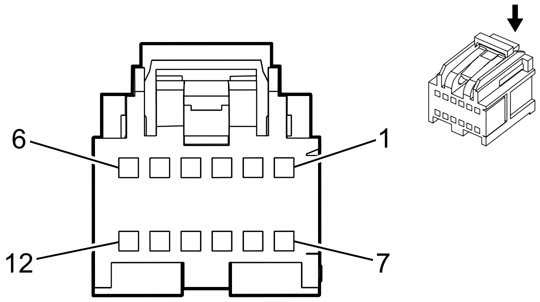
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13587581	Pending	Pending	Not Available	Not Available	Not Available	Not Available
II	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

K74 Human Machine Interface Control Module X1 (IO5 or IO6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35 0.35	GY/YE D-BU	5149 655	Voice Recognition Audio Signal Cellular Telephone Microphone Signal	I	-
2	0.35 0.35	BK/BN BK/GY	654 5152	Cellular Telephone Microphone Low Reference Voice Recognition Audio Low Reference	I	-
3-4	-	-	-	Not Occupied	-	-
5	0.35	WH/D-BU	5986	Serial Data Communication Enable	I	-
6	-	-	-	Not Occupied	-	-
7	0.75	RD/VT	340	Battery Positive Voltage	II	-
8	0.75	BK	2550	Ground	II	-
9	0.5	L-GN/WH	7527	Linear Interconnect Network Bus 5	I	-
10	-	-	-	Not Occupied	-	-
11	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	I	-
12	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	I	-
13	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	I	-
14	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	I	-

14	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	I	-
15-16	-	-	-	Not Occupied	-	-

K74 Human Machine Interface Control Module X2 (IO5 or IO6)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13782626

Service Connector: Pending

Description: 12-Way F 0.64 OCS Series (GY)

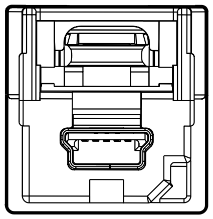
Terminal Part Information

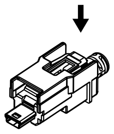
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13587581	Pending	Pending	Not Available	Not Available	Not Available	Not Available

K74 Human Machine Interface Control Module X2 (IO5 or IO6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/VT	3999	MOST Control	I	-
2	0.5	WH/L-GN	3997	MOST Serial Data (-)	I	-
3	0.5	GY/VT	3998	MOST Serial Data (+)	I	-
4	-	-	-	Not Occupied	-	-
5	0.35	GY/YE	6972	Camera Signal #2 +	I	-
6	0.35	WH/D-BU	6973	Camera Signal #2	I	-
7	-	-	-	Not Occupied	-	-
8	0.5	GY/VT	3998	MOST Serial Data (+)	I	-
9	0.5	WH/L-GN	3997	MOST Serial Data (-)	I	-
10-12	-	-	-	Not Occupied	-	-

K74 Human Machine Interface Control Module X3 (IO5 or IO6)





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13585557

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 5-Way M 2.0 Mini B USB Type (GY)

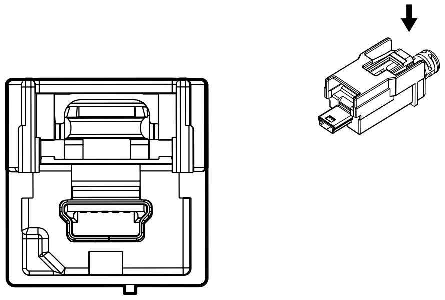
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K74 Human Machine Interface Control Module X3 (IO5 or IO6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	USB	—	USB Serial Data	I	—

K74 Human Machine Interface Control Module X4 (IO5 or IO6)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13585554

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 5-Way M 2.0 Mini B USB Type (GN)

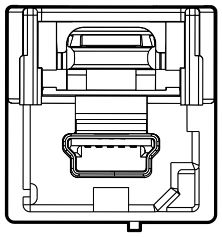
Terminal Part Information

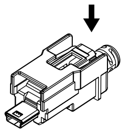
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K74 Human Machine Interface Control Module X4 (IO5 or IO6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	USB	—	USB Serial Data	I	—

K74 Human Machine Interface Control Module X5 (IO5 or IO6)





Connector Part Information

Harness Type: Instrument Panel LVDS

OEM Connector: 13578154

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 5-Way M 2.0 Mini B USB Type (BU)

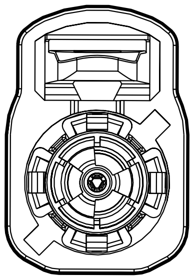
Terminal Part Information

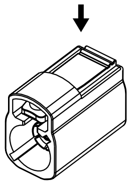
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K74 Human Machine Interface Control Module X5 (IO5 or IO6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	LVDS	—	Navigation Display Signal	I	—

K74 Human Machine Interface Control Module X7 (IO6)





Connector Part Information

Harness Type: COAX

OEM Connector: 13591270

Service Connector: Service by Cable Assembly — See Part Catalog

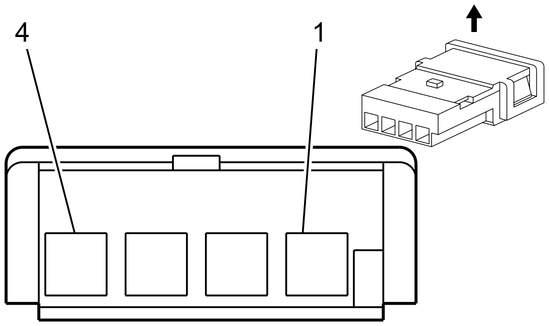
Description: 1-Way F Coax Type (BU)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K74 Human Machine Interface Control Module X7 (IO6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	COAX	—	Coaxial Antenna GPS Signal	I	—



Connector Part Information

Harness Type: Body

OEM Connector: 15363838

Service Connector: Pending

Description: 4-Way F 0.64 Micro Quadlock Series (BK)

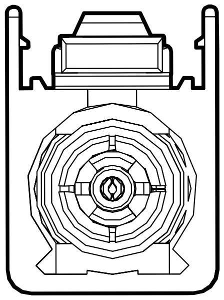
Terminal Part Information

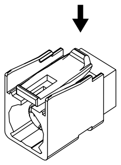
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575521	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	H	H

K77 Remote Control Door Lock Receiver X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY	3273	Remote Function Actuator Return	I	-
2	0.35	YE/L-GN	3274	Remote Function Actuator Transmit Signal	I	-
3	0.35	D-BU/WH	3275	Remote Function Actuator Receive Signal	I	-
4	0.35	GY/WH	3272	Remote Function Actuator Supply Voltage	I	-

K77 Remote Control Door Lock Receiver X2





Connector Part Information

Harness Type: Body COAX

OEM Connector: 13583902

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 1-Way F Coax Type (OG)

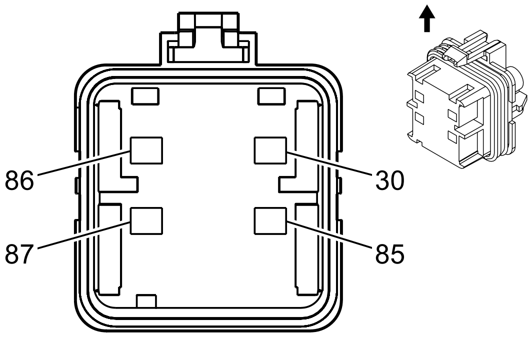
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K77 Remote Control Door Lock Receiver X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	COAX	—	Coaxial Antenna RFA Signal	I	—

KR79 Auxiliary Battery Relay 1 (5W4 or 9C1)



Connector Part Information

Harness Type: Battery Auxiliary

OEM Connector: 12129716

Service Connector: 15306045

Description: 4–Way F, 280 Metri-Pack Series, Flexlock, Sealed (GY)

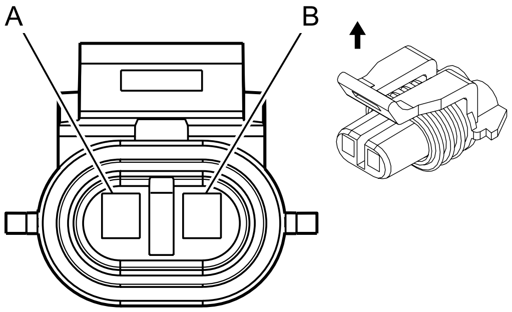
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

KR79 Auxiliary Battery Relay 1 (5W4 or 9C1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
30	0.5	RD/BU	4540	Battery Positive Voltage	I	-
85	0.5	BK	550	Ground	I	-
86	0.5	VT/BN	300	Run Ignition 3 Voltage	I	-
87	0.5	RD/BU	4540	Battery Positive Voltage	I	-

KR81 Auxiliary Battery Relay 2 X1 (5W4 or 9C1)



Connector Part Information

Harness Type: Battery Auxiliary

OEM Connector: 12052641

Service Connector: 13586114

Description: 2–Way F, 150 Metri-Pack Series (BK)

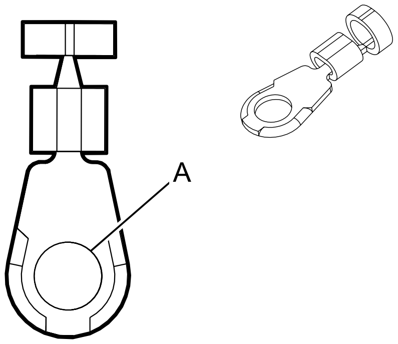
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

KR81 Auxiliary Battery Relay 2 X1 (5W4 or 9C1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	RD/BU	4540	Battery Positive Voltage	I	-
B	0.5	BK	550	Ground	I	-

KR81 Auxiliary Battery Relay 2 X2 (5W4 or 9C1)



Connector Part Information

Harness Type: Battery Auxiliary

OEM Connector: 00012131

Service Connector: Service by Harness - See Part Catalog

Description: Ring Terminal

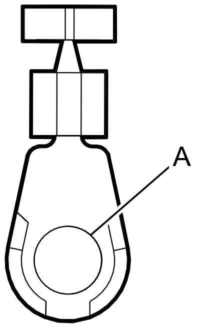
Terminal Part Information

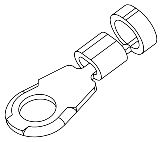
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness — See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

KR81 Auxiliary Battery Relay 2 X2 (5W4 or 9C1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	10	RD/VT	842	Battery Positive Voltage	I	—

KR81 Auxiliary Battery Relay 2 X3 (5W4 or 9C1)





Connector Part Information

Harness Type: Battery Auxiliary

OEM Connector: 00012131

Service Connector: Service by Harness - See Part Catalog

Description: Ring Terminal

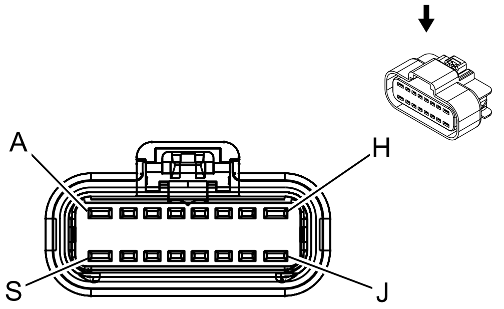
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness — See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

KR81 Auxiliary Battery Relay 2 X3 (5W4 or 9C1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	16	RD/GN	742	Battery Positive Voltage	I	—

K83 Parking Brake Control Module (J71)



Connector Part Information

Harness Type: Chassis

OEM Connector: 15479301

Service Connector: 15306348

Description: 16-Way F 150, 280 GT Series, Sealed (BK)

Terminal Part Information

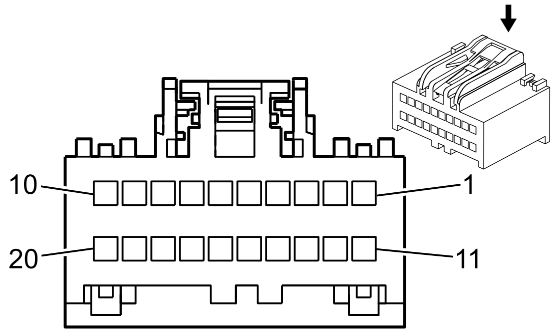
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-553	15392777	23	B	5
II	13578912	J-35616-2A (GY)	J-38125-553	12191819	8	E	1
III	13578915	J-35616-4A (PU)	J-38125-553	15304719	19	E	5

K83 Parking Brake Control Module (J71)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	4	RD/WH	1642	Battery Positive Voltage	I	-
B	0.5	YE/RD	7683	Park Brake Release Switch Voltage Reference	II	-
C	0.5	D-BU/VT	1134	Park Brake Switch Signal	II	-
D	0.5	GY/RD	7684	Park Brake Apply Switch Voltage Reference	II	-
E	-	-	-	Not Occupied	-	-
F	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	II	-
G	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	II	-
H	4	BK	2150	Ground	I	-
K	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	II	-
L	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	II	-
M	-	-	-	Not Occupied	-	-
N	0.5	YE	1492	Park Brake Switch Supply Voltage	II	-
P	0.5	WH/D-BU	5986	Serial Data Communication Enable	II	-

R	0.5	BN	6107	Park Brake Apply Switch Signal	II	-
S	0.5	D-BU/BK	6108	Park Brake Release Switch Signal	III	-

K84 Keyless Entry Control Module X1 (ATH or BTM)



Connector Part Information

Harness Type: Body

OEM Connector: 15491305

Service Connector: 15126709

Description: 20-Way F USCAR 64 Series (BN)

Terminal Part Information

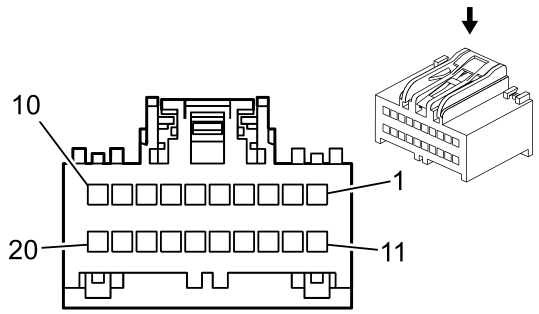
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

K84 Keyless Entry Control Module X1 (ATH or BTM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	L-GN/VT	1601	Steering Column Lock Signal	I	-
2	0.5	RD/YE	4340	Battery Positive Voltage	I	-
3	0.35	L-GN	5060	Low Speed GMLAN Serial Data	I	-
4	-	-	-	Not Occupied	-	-
5	0.35	VT/YE	4	Accessory Voltage	I	-
6	-	-	-	Not Occupied	-	-
7	0.35	GY/L-GN	4083	RAP Relay 2 Coil Control	I	-
8	-	-	-	Not Occupied	-	-
9	0.35	WH/YE	3574	Driver Door Open Switch Signal	I	-
10	0.35	YE/D-BU	4086	Pushbutton Start Challenge Active Signal	I	-
11	0.35	L-GN/BK	3558	Passive Start Switch Signal 2	I	-
12	0.35	BK/GY	3559	Passive Start Switch 2 Low Reference	I	-
13	0.35	VT/BK	3	Run/Crank Ignition 1 Voltage	I	-
14	0.5	BK/WH	2751	Signal Ground	I	-
15	0.35	GY/BK	3555	Passive Start Interior Antenna 2 Signal Lo	I	-

16	0.35	BN/BK	3552	Passive Start Interior Antenna 1 Signal Hi	I	-
17	0.35	WH	3553	Passive Start Interior Antenna 1 Signal Lo	I	-
18	0.35	WH/L-GN	3556	Passive Start Interior Antenna 3 Signal Hi	I	-
19	0.35	L-GN	3557	Passive Start Interior Antenna 3 Signal Lo	I	-
20	0.35	D-BU	3554	Passive Start Interior Antenna 2 Signal Hi	I	-

K84 Keyless Entry Control Module X2 (ATH or BTM)



Connector Part Information

Harness Type: Body

OEM Connector: 15491304

Service Connector: 15126710

Description: 20-Way F USCAR 64 Series (GY)

Terminal Part Information

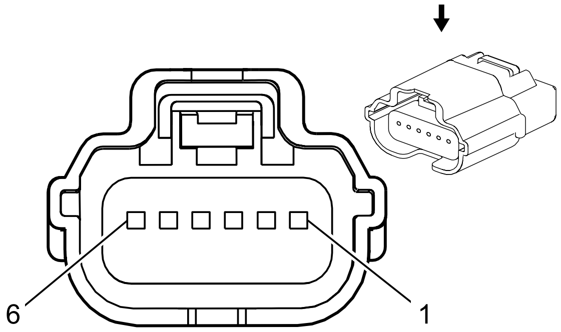
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

K84 Keyless Entry Control Module X2 (ATH or BTM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE/GY	6158	Right Rear Door Handle Switch Signal	I	-
2	0.35	BN/YE	6157	Left Rear Door Handle Switch Signal	I	-
3-5	-	-	-	Not Occupied	-	-
6	0.35	VT	3560	Passive Entry Driver Door Antenna Signal Hi	I	-
7	0.35	VT/GY	3561	Passive Entry Driver Door Antenna Signal Lo	I	-
8	-	-	-	Not Occupied	-	-
9	0.35	L-GN/BK	3563	Passive Entry Co_Driver Door Antenna Signal Lo	I	-
10	-	-	-	Not Occupied	-	-
11	0.35	VT/WH	3571	Co_Driver Door Handle Switch Signal	I	-
12	0.35	L-GN/WH	3570	Driver Door Handle Switch Signal	I	-
13	0.5	YE/D-BU	5797	Rear Closure Handle Switch Open Signal	I	-
14-15	-	-	-	Not Occupied	-	-
16	0.5	BN/L-GN	3568	Passive Entry Rear Closure Antenna Signal Hi	I	-
17	-	-	-	Not Occupied	-	-
18	0.5	L-GN/GY	3569	Passive Entry Rear Closure Antenna Signal Lo	I	-

19	-	-	-	Not Occupied	-	-
20	0.35	L-GN/YE	3562	Passive Entry Co_Driver Door Antenna Signal Hi	I	-

K85 Passenger Presence Module



Connector Part Information

Harness Type: Passenger Seat

OEM Connector: 31404-6132

Service Connector: No SDC/FSU

Description: 6-Way F 0.64 Series, Sealed (BK)

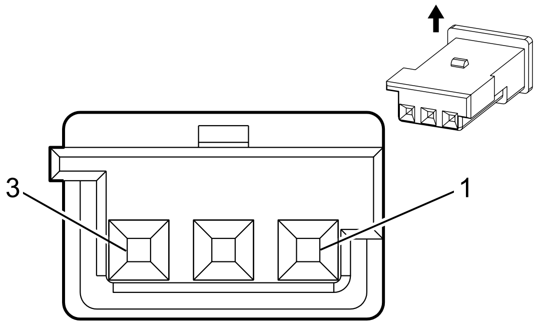
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K85 Passenger Presence Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35 0.35	RD/L-GN RD/RD	4440 4440	Battery Positive Voltage Battery Positive Voltage	I	-
2	0.35 0.5 0.5	L-GN L-GN L-GN/L-GN	5060 5060 5060	Low Speed GMLAN Serial Data Low Speed GMLAN Serial Data Low Speed GMLAN Serial Data	I	-
3	-	-	-	Not Occupied	-	-
4	0.35 0.35	BK/WH BK/BK	2751 2751	Signal Ground Signal Ground	I	-
5	0.35 0.35	L-BU/RD L-BU/L-BU	5612 5612	Passenger Seat Belt Tension Sensor Voltage Reference Passenger Seat Belt Tension Sensor Voltage Reference	I	-
6	0.35 0.35	VT/OG VT/VT	5611 5611	Passenger Seat Belt Tension Sensor Signal Passenger Seat Belt Tension Sensor Signal	I	-

K89 Immobilizer Control Module



Connector Part Information

Harness Type: Floor Console

OEM Connector: 13604026

Service Connector: 13576530

Description: 3-Way F Micro Quadlock Series (PU)

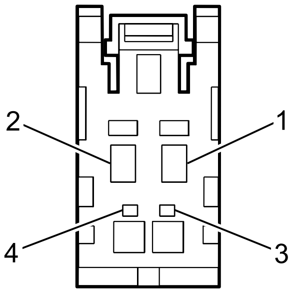
Terminal Part Information

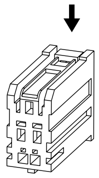
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575521	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	H	H
II	13327114	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	H	H

K89 Immobilizer Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	L-GN/GY	3277	Vehicle Anti-Theft System Immobilizer Return	I	-
2	0.35	L-GN/VT	7533	Linear Interconnect Network Bus 11	I	-
3	0.35	GY/BK	3276	Vehicle Anti-Theft System Immobilizer Supply Voltage	I	-

K99 Steering Column Position Control Module X1 (N38)





Connector Part Information

Harness Type: Steering Column Tilt Motor Pigtail

OEM Connector: 19206654

Service Connector: Service by Component — See Part Catalog

Description: 4-Way F 0.64, 1.5 Series (GY)

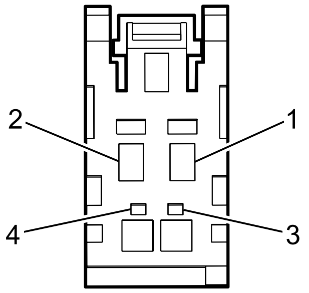
Terminal Part Information

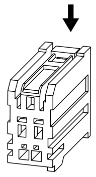
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K99 Steering Column Position Control Module X1 (N38)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BN/GY	2112	Steering Column Tilt Motor Down Control	I	-
2	1	GY/VT	2111	Steering Column Tilt Motor Up Control	I	-
3	0.35	YE	2154	Steering Column Tilt Motor Return	I	-
4	0.35	WH/BK	2156	Steering Column Tilt Motor Signal	I	-

K99 Steering Column Position Control Module X2 (N38)





Connector Part Information

Harness Type: Steering Column Telescope Motor Pigtail

OEM Connector: 19206655

Service Connector: Service by Component — See Part Catalog

Description: 4-Way F 0.64, 1.5 Series (GN)

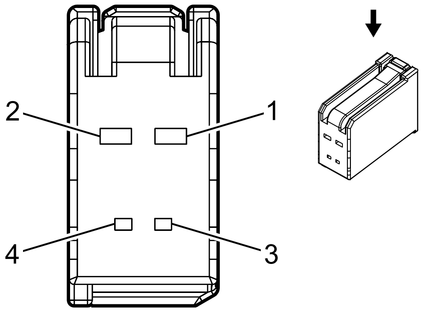
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K99 Steering Column Position Control Module X2 (N38)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BU/BK	2098	Steering Column Telescope Motor Forward	I	-
2	1	YE/BN	2110	Steering Column Telescope Motor Rearward	I	-
3	0.35	YE/BK	2152	Steering Column Telescope Motor Return	I	-
4	0.35	VT/GY	2153	Steering Column Telescope Motor Signal	I	-

K99 Steering Column Position Control Module X3 (N38)



Connector Part Information

Harness Type: Steering Column

OEM Connector: HSDPB-04-2FS

Service Connector: 19299685

Description: 4-Way F 0.64, 1.5 Series WH

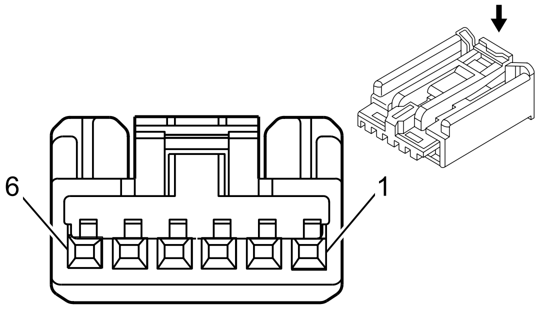
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-2A (GY)	Not Available	Not Available	Not Available	Not Available	Not Available
II	Not Available	J-35616-64B (L-BU)	Not Available	Not Available	Not Available	Not Available	Not Available

K99 Steering Column Position Control Module X3 (N38)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	RD/VT	4640	Battery Positive Voltage	I	-
2	1	BK	1850	Ground	I	-
3	-	-	-	Not Occupied	-	-
4	0.35	L-GN/WH	7530	Linear Interconnect Network Bus 8	II	-

K99 Steering Column Position Control Module X4 (N38)



Connector Part Information

Harness Type: Tilt and Telescope Switch

OEM Connector: AIT2PB-06-1AK

Service Connector: 19167753

Description: 6-Way F 0.64 Kaizen Series BK

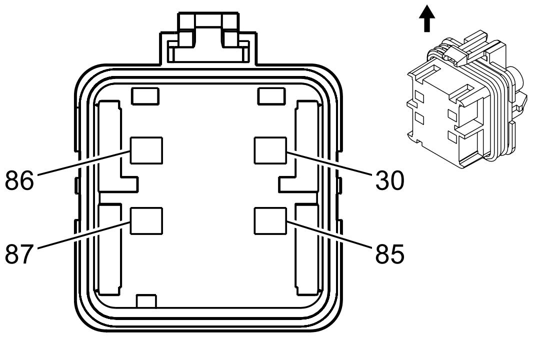
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-64B (L-BU)	Not Available	Not Available	Not Available	Not Available	Not Available

K99 Steering Column Position Control Module X4 (N38)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK	1550	Ground	I	-
2	0.35	RD	2094	Steering Column Tilt and Telescope Forward Switch Signal	I	-
3	0.35	WH	2095	Steering Column Tilt and Telescope Rearward Switch Signal	I	-
4	0.35	GN	2096	Steering Column Tilt and Telescope Up Switch Signal	I	-
5	0.35	YE	2097	Steering Column Tilt and Telescope Down Switch Signal	I	-
6	-	-	-	Not Occupied	-	-

KR99 Air Suspension Relay (Z85 or Z95)



Connector Part Information

Harness Type: Chassis

OEM Connector: 12129716

Service Connector: 15306045

Description: 4-Way F 280 Metri Pack Series, Flexlock, Sealed (GY)

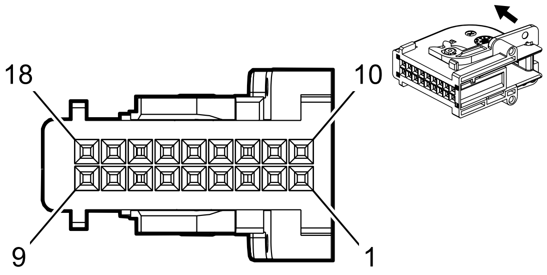
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-553	12110845	4	F	5
II	Pending	J-35616-4A (PU)	J-38125-553	12110847	4	E	5

KR99 Air Suspension Relay (Z85 or Z95)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-29	-	-	-	Not Occupied	-	-
30	2.5	RD/D-BU	1842	Battery Positive Voltage	I	-
31-84	-	-	-	Not Occupied	-	-
85	0.5 0.5	BK BN/YE	1750 1112	Ground Damping Relay Coil Control	II	-
86	0.5 0.5	VT/BK VT/D-BU	739 5956	Run/Crank Ignition 1 Voltage Leveling Compressor Relay Coil Supply Voltage	II	-
87	2.5	WH/PU	2248	Real Time Damping Leveling Motor Supply Voltage	I	-

K101 Trailer Interface Control Module X1 (VQ9)



Connector Part Information

Harness Type: Body

OEM Connector: 13292663

Service Connector: 19119427

Description: 18-Way F 0.64 Series (WH)

Terminal Part Information

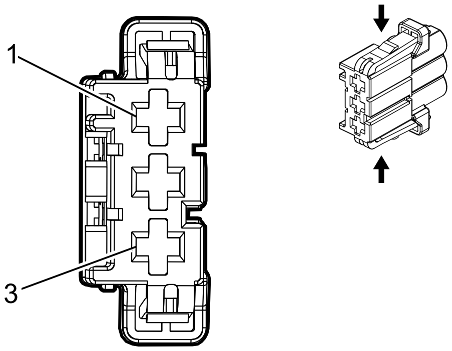
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K101 Trailer Interface Control Module X1 (VQ9)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GN	5060	Low Speed GMLAN Serial Data	I	-
2	0.75	YE/GY	5187	Right Trailer Turn Signal Lamp Control	I	-
3	-	-	-	Not Occupied	-	-
4	0.75	BN/GY	5184	Left Trailer Park Lamp Control	I	-
5	0.75	BN/YE	5188	Trailer Brake Lamp Control	I	-
6	-	-	-	Not Occupied	-	-
7	0.75	GN/WH	5189	Trailer Backup Lamp Control	I	-
8	0.75	YE/WH	5190	Trailer Fog Lamp Control	I	-
9	-	-	-	Not Occupied	-	-
10	0.75	BN/YE	5188	Trailer Brake Lamp Control	I	-
11	-	-	-	Not Occupied	I	-
12	0.75	GN/BU	5992	Trailer Connected Signal	I	-
13	0.5	VT/WH	1139	Run/Crank Ignition 1 Voltage	I	-
14	0.5	VT/WH	5065	Stop Lamp Relay Coil Control	I	-
15	-	-	-	Not Occupied	-	-

16	0.75	GY	5185	Right Trailer Park Lamp Control	I	-
17	0.75	BU/WH	5186	Left Trailer Turn Signal Lamp Control	I	-
18	-	-	-	Not Occupied	-	-

K101 Trailer Interface Control Module X2 (VQ9)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15404424

Service Connector: 13314094

Description: 3–Way F 2.8 MCP Series, Sealed (BK)

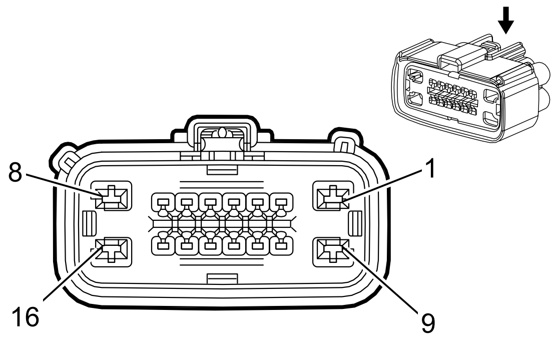
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K101 Trailer Interface Control Module X2 (VQ9)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	BK	1450	Ground	I	-
2	-	-	-	Not Occupied	-	-
3	2.5	RD/GY	6240	Battery Positive Voltage	I	-

K111 Fuel Pump Driver Control Module



Connector Part Information

Harness Type: Chassis

OEM Connector: 15500308

Service Connector: Service by Harness - See Part Catalog

Description: 16-Way F 1.5, 2.8 Series, Sealed

Terminal Part Information

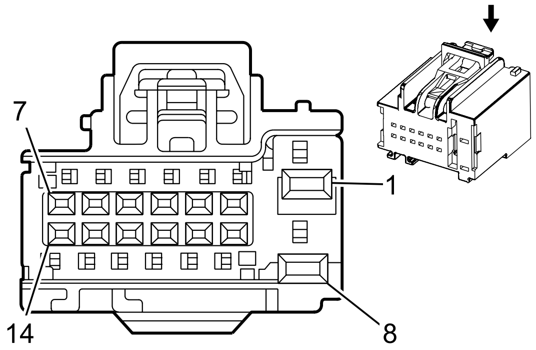
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-35 (VT)	J-38125-12A	1326030-8	17	4	D
II	13575808	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	E	2

K111 Fuel Pump Driver Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	RD/VT	1940	Battery Positive Voltage	I	-
2	0.5	GY	5660	Fuel Pump Controller Data Out Signal	II	-
3	-	-	-	Not Occupied	-	-
4	0.5	D-BU/BK	7493	High Speed GMLAN Serial Data (+)(3)	II	-
5	0.5	WH	7494	High Speed GMLAN Serial Data (-)(3)	II	-
6	0.5	VT/L-GN	439	Run/Crank Ignition 1 Voltage	II	-
7	0.5	VT/YE	5985	Accessory Wakeup Serial Data	II	-
8	2.5	GY	120	Fuel Pump Supply Voltage	I	-
9	2.5	BK	2150	Ground	I	-
10	-	-	-	Not Occupied	-	-
11	0.5	D-BU/BK	7493	High Speed GMLAN Serial Data (+)(3)	II	-
12	0.5	D-BU/BK	7493	High Speed GMLAN Serial Data (+)(3)	II	-
13	0.5	WH	7494	High Speed GMLAN Serial Data (-)(3)	II	-
14	0.5	WH	7494	High Speed GMLAN Serial Data (-)(3)	II	-

15	0.5	D-BU	7444	Fuel System Control Module Shield	II	-
16	2.5	BK/L-GN	1580	Fuel Pump Low Reference	I	-

K124 Active Safety Control Module X1 (UGN with Z75)



Connector Part Information

Harness Type: Body

OEM Connector: 13601512

Service Connector: 89047362

Description: 14-Way F 0.64, 1.5 Series (BK)

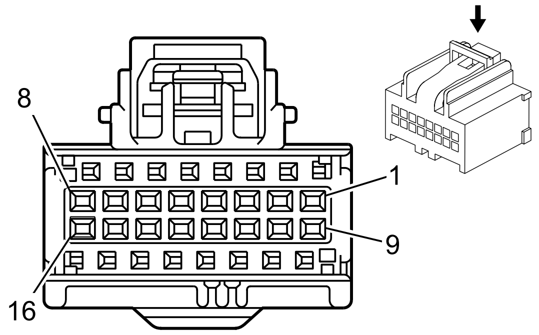
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575479	J-35616-2A (GY)	J-38125-553	12191812	19	C	A
II	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
III	13327109	J-35616-2A (GY)	J-38125-553	12191812	19	E	C

K124 Active Safety Control Module X1 (UGN with Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	RD/L-GN	3140	Battery Positive Voltage	I	-
2	0.35	L-GN/BN	5852	Rear Park Assist LED Disable Signal	II	-
3	0.35	WH	3152	Lane Departure Warning Indicator Control	II	-
4-5	-	-	-	Not Occupied	-	-
6	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	II	-
7	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	II	-
8	0.5	BK/WH	2751	Signal Ground	III	-
9	0.35	GY/VT	3808	Front Object Sensor Supply Voltage (2)	II	-
10	0.35	BN/VT	3809	Front Object Sensor Supply Voltage (1)	II	-
11	0.35	GY/L-GN	2555	Rear Park Assist Disable Signal	II	-
12	0.35	WH/D-BU	5986	Serial Data Communication Enable	II	-
13	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	II	-
14	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	II	-

K124 Active Safety Control Module X2 (UGN with Z75)



Connector Part Information

Harness Type: Body

OEM Connector: 15491285

Service Connector: 15136073

Description: 16-Way F Kaizen 64 Series (BK)

Terminal Part Information

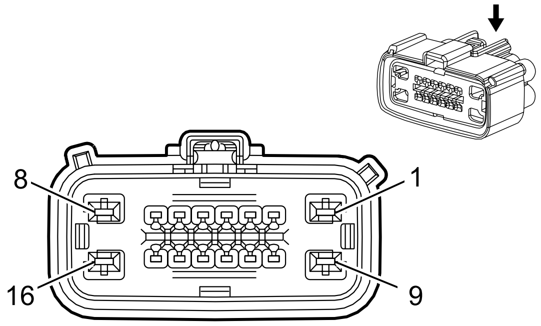
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

K124 Active Safety Control Module X2 (UGN with Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU/YE	6105	High Speed GMLAN Serial Data (+) (2)	I	-
2	0.5	D-BU/YE	6105	High Speed GMLAN Serial Data (+) (2)	I	-
3	0.5	D-BU/VT	3813	High Speed GMLAN Serial Data (+) (4)	I	-
4	0.5	D-BU/VT	3813	High Speed GMLAN Serial Data (+) (4)	I	-
5	-	-	-	Not Occupied	-	-
6	0.5	D-BU/VT	3813	High Speed GMLAN Serial Data (+) (4)	I	-
7	0.35	L-GN	5060	Low Speed GMLAN Serial Data	I	-
8	-	-	-	Not Occupied	-	-
9	0.5	WH	6106	High Speed GMLAN Serial Data (-) (2)	I	-
10	0.5	WH	6106	High Speed GMLAN Serial Data (-) (2)	I	-
11	0.5	WH	3811	High Speed GMLAN Serial Data (-) (4)	I	-
12	0.5	WH	3811	High Speed GMLAN Serial Data (-) (4)	I	-
13	-	-	-	Not Occupied	-	-
14	0.5	WH	3811	High Speed GMLAN Serial Data (-) (4)	I	-
15	-	-	-	Not Occupied	-	-

16	0.35	GY/WH	3153	Lane Departure Warning Disable Switch Signal	I	-

K133 Trailer Brake Power Control Module (JL1)



Connector Part Information

Harness Type: Chassis

OEM Connector: 13991106

Service Connector: Not Available

Description: 16-Way F 1.5, 2.8 Series, Sealed (D-GY)

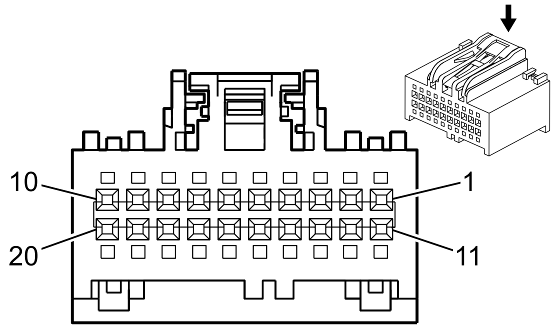
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-35 (VT)	J-38125-12A	1326030-8	17	4	D
II	13575809	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	E	2
III	13575808	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	E	2

K133 Trailer Brake Power Control Module (JL1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	RD/L-GN	242	Battery Positive Voltage	I	-
2	0.5	WH/BK	2223	Trailer Brake Control Signal	II	-
3-4	-	-	-	Not Occupied	-	-
5	0.5	YE/BK	2224	Trailer Brake Enable Signal	II	-
6-7	-	-	-	Not Occupied	-	-
8	2.5	D-BU	47	Trailer Auxiliary Supply Voltage	I	-
9	2.5	BK	1750	Ground	I	-
10-11	-	-	-	Not Occupied	-	-
12	0.5	GY	2225	Trailer Brake Current Feedback Signal	II	-
13	-	-	-	Not Occupied	-	-
14	0.5	D-BU	47	Trailer Auxiliary Supply Voltage	II	-
15-16	-	-	-	Not Occupied	-	-

K157 Video Processing Control Module X1 (UVH)



Connector Part Information

Harness Type: Body

OEM Connector: 15489824

Service Connector: 15126711

Description: 20-Way F 0.64 Series (BK with WH Terminal Position Assurance)

Terminal Part Information

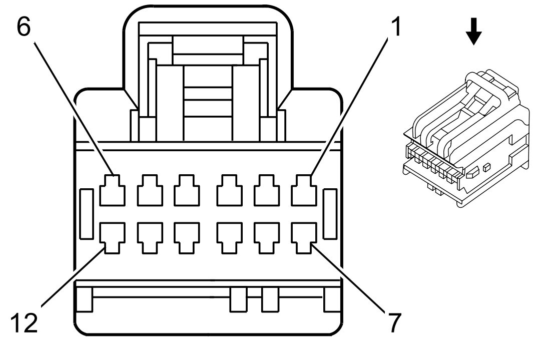
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

K157 Video Processing Control Module X1 (UVH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	D-BU	3373	Auxiliary Video High Signal (2)	I	-
2	0.35	BK/WH	2551	Signal Ground	I	-
3	0.35	BK/WH	2551	Signal Ground	I	-
4	0.35	WH	7641	Camera Rear Vision Signal +	I	-
5	0.35	WH/L-GN	2628		I	-
6	0.35	BK/WH	2551	Signal Ground	I	-
7	0.35	BK/WH	2551	Signal Ground	I	-
8	0.35	WH/D-BU	2627		I	-
9-10	-	-	-	Not Occupied	-	-
11	0.35	GY	3372	Auxiliary Video Low Signal (2)	I	-
12	0.35	WH/BN	6201	Camera Supply Voltage	I	-
13	0.35	WH/BN	6201	Camera Supply Voltage	I	-
14	0.35	D-BU	7642	Camera Rear Vision Signal (-)	I	-
15	0.35	GY/L-GN	2625		I	-
16	0.5	WH/BN	6201	Camera Supply Voltage	I	-

17	0.5	WH/BN	6201	Camera Supply Voltage	I	-
18	0.35	GY/D-BU	2626		I	-
19-20	-	-	-	Not Occupied	-	-

K157 Video Processing Control Module X2 (UVH)



Connector Part Information

Harness Type: Body

OEM Connector: 13551678

Service Connector: 89047364

Description: 12-Way F 0.64 Series (BK)

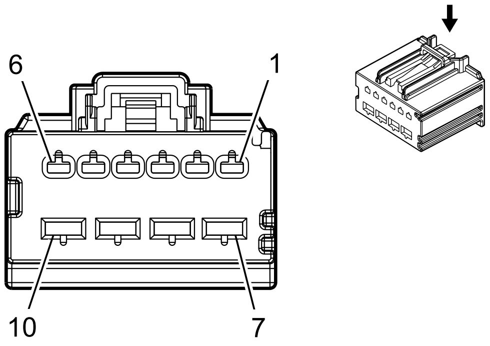
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

K157 Video Processing Control Module X2 (UVH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/L-GN	1739	Run/Crank Ignition 1 Voltage	I	-
2	-	-	-	Not Occupied	-	-
3	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	-
4-5	-	-	-	Not Occupied	-	-
6	0.35	GY/YE	6972	Camera Signal #2 +	I	-
7	0.35	BK	2550	Ground	I	-
8-10	-	-	-	Not Occupied	-	-
11	0.35	Bare	6974	Camera Drain Wire	I	-
12	0.35	WH/D-BU	6973	Camera Signal #2	I	-

K169 Folding Seat Control Module - 3rd Row X1 (AS8)



Connector Part Information

Harness Type: 3rd Row Seat Left

OEM Connector: 31372-1100

Service Connector: Service by Harness - See Part Catalog

Description: 10-Way F 1.5, 2.8 Series (GY)

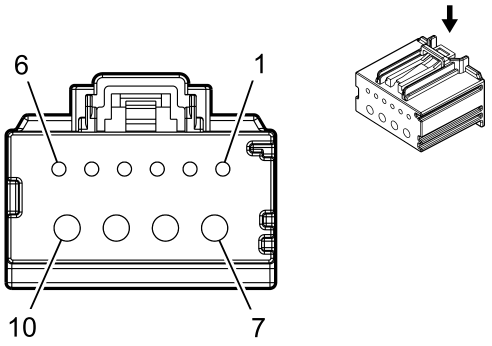
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K169 Folding Seat Control Module - 3rd Row X1 (AS8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5 1.5	RD/GY L-GN	9008 9007		I	-
2	1.5 1.5	L-GN RD/GY	9007 9008		I	-
3	0.35	YE/L-BU	9010		I	-
4	0.5 0.35	BK/WH BN/WH	1151 9009	Signal Ground	I	-
5	0.35	WH/RD	9012		I	-
6	-	-	-	Not Occupied	-	-
7	1.5	OG	9005		I	-
8	1.5	L-BU	9006		I	-
9	0.35	WH/BK	9011		I	-
10	2.5 2.5	RD/L-BU BK	1240 1150	Battery Positive Voltage Ground	I	-

K169 Folding Seat Control Module - 3rd Row X2 (AS8)



Connector Part Information

Harness Type: 3rd Row Seat Left

OEM Connector: 31372-1000

Service Connector: Service by Harness - See Part Catalog

Description: 10-Way F 1.5, 2.8 Series (BK)

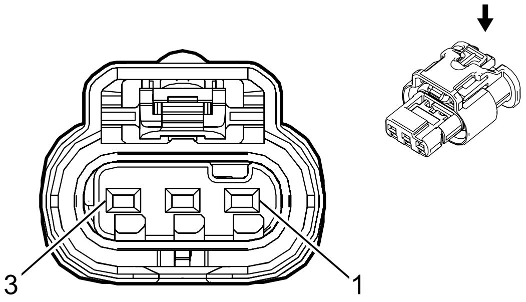
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K169 Folding Seat Control Module - 3rd Row X2 (AS8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE	902		I	-
2	0.5	YE/BK	6810	Right Rear Seat Fold Tumble Signal	I	-
3	0.5	L-GN	901		I	-
4	0.5	L-GN/BK	6811	Left Rear Seat Fold Tumble Signal	I	-
5	1.5	YE/WH	9004		I	-
6	1.5	GY	9003		I	-
7	2.5 2.5	BK RD/L-BU	1150 1240	Ground Battery Positive Voltage	I	-
8	-	-	-	Not Occupied	-	-
9	1.5 1.5	 RD	9001 9002		I	-
10	1.5 1.5	RD	9002 9001		I	-

K171 Hands-Free Liftgate Sensor Control Module X1 (TC2)



Connector Part Information

Harness Type: Rear Bumper

OEM Connector: 13868589

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 1.2 MCP Series, Sealed (BN)

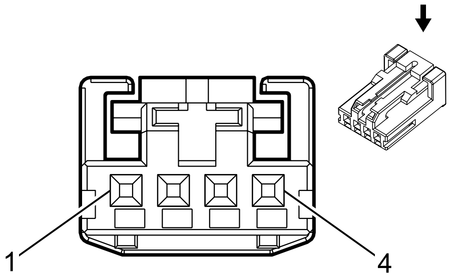
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-16 (L-GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

K171 Hands-Free Liftgate Sensor Control Module X1 (TC2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN/BN	4118	Linear Interconnect Network Bus 18	I	-
2	0.5	RD/L-GN	3140	Battery Positive Voltage	I	-
3	0.5	BK	1450	Ground	I	-

K175 Center Console Compartment Cooler Control Module (DCK)



Connector Part Information

Harness Type: Floor Console

OEM Connector: 13969166

Service Connector: Service by Harness - See Part Catalog

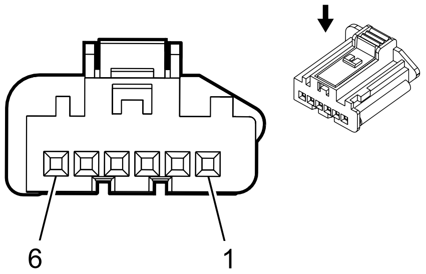
Description: 4-Way F 0.64 Micro Quadlock Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327114	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	J	J
II	13327114	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	H	H

K175 Center Console Compartment Cooler Control Module (DCK)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK	1050	Ground	I	-
2	0.35	BN	6532	Power Trunk On/Off Control	II	-
3	0.35	GY/BK	2546	Rear Steering Axle Control Motor Supply Voltage Phase B	II	-
4	0.5	VT/BK	739	Run/Crank Ignition 1 Voltage	I	-



Connector Part Information

Harness Type: HVAC Jumper

OEM Connector: 12759936

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 0.64 Micro Quadlock Series (BK)

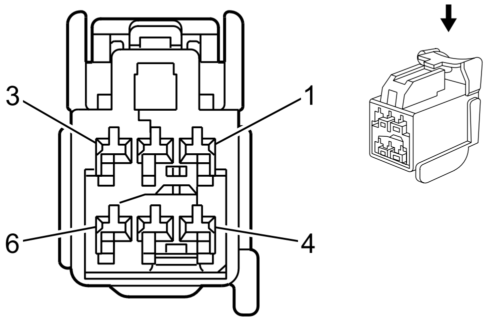
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M4 Air Inlet Door Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK/YE	1791	Air Temperature Door Control Low Reference	I	-
2	0.35	VT/GN	1838	Recirculation Door Position Signal	I	-
3	0.35	GY/RD	598	5 Volt Reference	I	-
4	-	-	-	Not Occupied	-	-
5	0.35	GN	1614	Recirculation Door Control	I	-
6	0.35	YE/BK	2274	Recirculation Door Control	I	-

M5 Adjustable Pedal Motor (JF4)



Connector Part Information

Harness Type: Brake Clutch Jumper

OEM Connector: 10846805

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 1.5 Kaizen Series (L-GY)

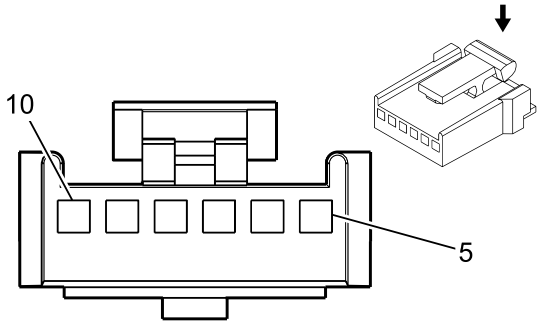
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575738	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	2	4
II	13575809	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	E	2

M5 Adjustable Pedal Motor (JF4)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	L-GN/VT	5130	Adjustable Pedal Actuator Forward Control	I	-
2	0.5	D-BU	5952	Adjustable Pedal Position Sensor Brake Signal	II	-
3	0.5	BK/GY	6206	Memory Sensor Low Reference	II	-
4	1.5	YE	5129	Adjustable Pedal Actuator Rearward Control	I	-
5	0.5	WH/RD	6207	Memory Sensor High Reference	II	-
6	-	-	-	Not Occupied	-	-

M6B Air Temperature Door Actuator - Auxiliary



Connector Part Information

Harness Type: Auxiliary HVAC

OEM Connector: 2035363-3

Service Connector: Service by Harness — See Part Catalog

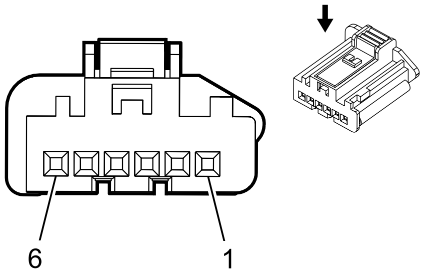
Description: 6-Way F (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-64B (L-BU)	Not Available	Not Available	Not Available	Not Available	Not Available

M6B Air Temperature Door Actuator - Auxiliary

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/BN	2275	Air Temperature Door Control	I	-
2	0.35	GY	2614	Air Temperature Door Control	I	-
3	—	—	—	Not Occupied	—	—
4	0.35	BK/YE	407	Sensor Low Reference	I	-
5	0.35	GY/BU	2145	Passenger Air Temperature Switch Signal	I	-
6	0.35	GY/RD	598	5 Volt Reference	I	-



Connector Part Information

Harness Type: HVAC Jumper

OEM Connector: 12759936

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 0.64 Micro Quadlock Series (BK)

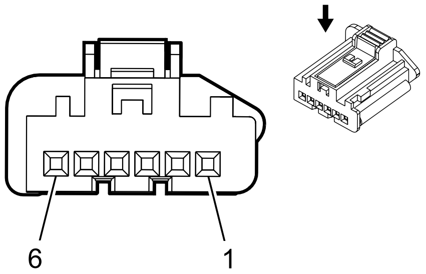
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M6L Air Temperature Door Actuator - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK/YE	1791	Air Temperature Door Control Low Reference	I	CJ2/CJ4/C42/C67
2	0.35	BU/YE	733	Air Temperature Door Position Signal	I	CJ2/CJ4/C42/C67
3	0.35	GY/RD	598	5 Volt Reference	I	CJ2/CJ4/C42/C67
4	-	-	-	Not Occupied	-	-
5	0.35	BU/BN	1199	Air Temperature Door Control	I	CJ2/CJ4/C42/C67
6	0.35	GY/GN	2210	Air Temperature Door Control	I	CJ2/CJ4/C42/C67

M6R Air Temperature Door Actuator - Right



Connector Part Information

Harness Type: HVAC Jumper

OEM Connector: 12759936

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 0.64 Micro Quadlock Series (BK)

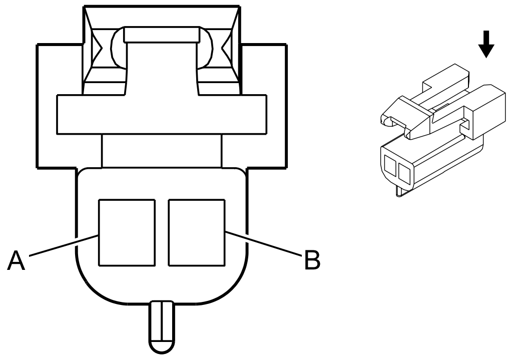
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

M6R Air Temperature Door Actuator - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK/YE	1791	Air Temperature Door Control Low Reference	I	CJ2/CJ4-C67-C42
2	0.35	BN/BU	1646	Passenger Air Temperature Door Position Signal	I	CJ2/CJ4-C67-C42
3	0.35	GY/RD	598	5 Volt Reference	I	CJ2/CJ4-C67-C42
4	-	-	-	Not Occupied	-	-
5	0.35	WH/BK	1236	Passenger Air Temperature Door Control	I	CJ2/CJ4-C67-C42
6	0.35	GY/BK	2778	Passenger Air Temperature Motor Control	I	CJ2/CJ4-C67-C42

M7 Transmission Shift Lock Control Solenoid Actuator



Connector Part Information

Harness Type: Steering Column

OEM Connector: 12052832

Service Connector: 13583033

Description: 2-Way F Metri Pack 150 Series (BK)

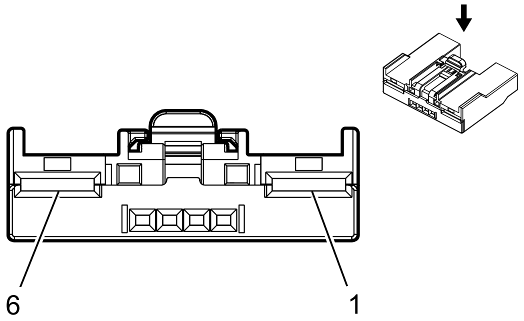
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M7 Transmission Shift Lock Control Solenoid Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	YE	816	Brake Transmission Shift Interlock Solenoid Control	I	-
B	0.35	BK/WH	1851	Ground	I	-

M8 Blower Motor



Connector Part Information

Harness Type: HVAC Jumper

OEM Connector: 13582015

Service Connector: 19260815

Description: 6-Way F 0.64 GET, 6.3 Series (BK)

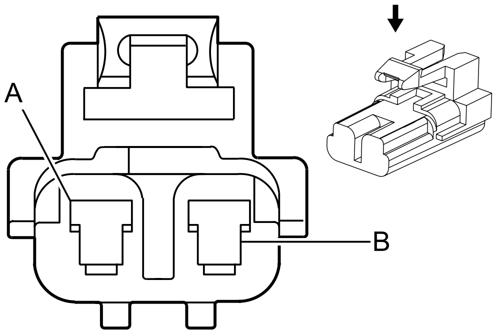
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-42 (RD)	J-38125-11A	7116-4122-02	10	D	G
II	Not Available	J-35616-35 (VT)	Not Available	Not Available	Not Available	Not Available	Not Available

M8 Blower Motor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	4	RD/VT	542	Battery Positive Voltage	I	-
2	0.5	D-BU/GY	754	Blower Motor Speed Control	II	-
3-5	-	-	-	Not Occupied	-	-
6	4	BK	1850	Ground	I	-

M8B Blower Motor Auxiliary (GMCH)



Connector Part Information

Harness Type: Auxiliary HVAC

OEM Connector: 12084957

Service Connector: 12126461

Description: 2–Way F, 280 Metri-Pack Series (BK)

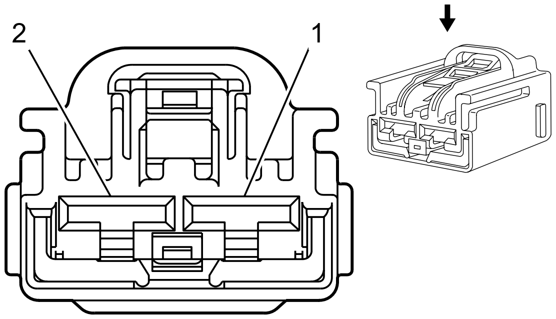
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M8B Blower Motor Auxiliary (GMCH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	2.5	BU/BK	5988	Rear Blower Motor Low Reference	I	-
B	2.5	GY/BN	101	Blower Motor Control	I	-

M8B Blower Motor Auxiliary (BEHR)



Connector Part Information

Harness Type: Auxiliary HVAC

OEM Connector: 15226103

Service Connector: 88988507

Description: 2–Way F, 6.3 Series (L-GY)

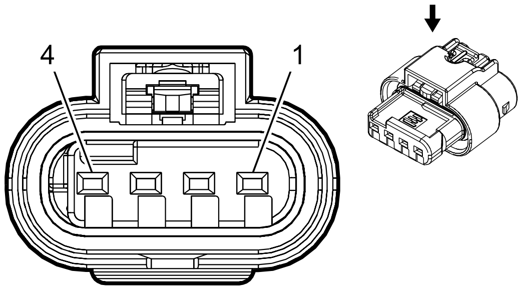
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M8B Blower Motor Auxiliary (BEHR)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	BU/BK	5988	Rear Blower Motor Low Reference	I	-
2	2.5	GY/BN	101	Blower Motor Control	I	-

M26 Front Axle Engagement Actuator (NP0 or NQH)



Connector Part Information

Harness Type: Front Axle Jumper

OEM Connector: 13817132

Service Connector: No SDC/FSU

Description: 4-Way F 1.2 MCP Series, Sealed (BK)

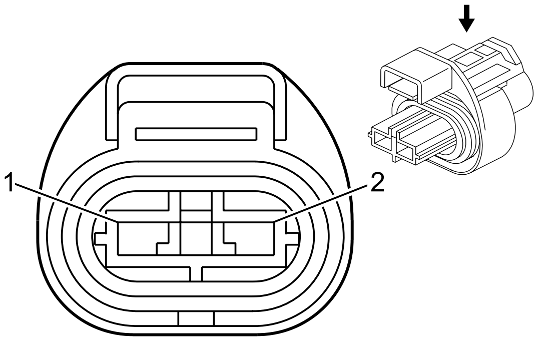
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

M26 Front Axle Engagement Actuator (NP0 or NQH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BK	2139	Run/Crank Ignition 1 Voltage	I	-
2	0.5	GY/BK	1570	Front Axle Actuator Control	I	-
3	0.5	YE/WH	1695	Four Wheel Drive Wheel Lock Indicator	I	-
4	0.5	BK	550	Ground	I	-

M27 Fuel Door Unlatch Actuator (N08)



Connector Part Information

Harness Type: Chassis

OEM Connector: 13548106

Service Connector: 13314083

Description: 2-Way F 1.2 Timer Series, Sealed (BK)

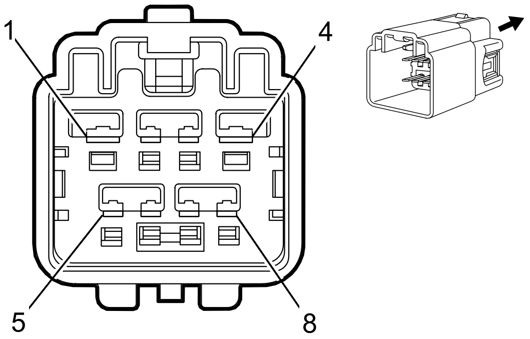
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13584470	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1

M27 Fuel Door Unlatch Actuator (N08)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BN/YE	294	Door Lock Actuator Unlock Control	I	-
2	0.75	GY	5911	Door Lock Actuator Lock Control 2	I	-

M31 Liftgate Motor (TB5)



Connector Part Information

Harness Type: Liftgate

OEM Connector: 10847005

Service Connector: 19301405

Description: 8-Way M YESC Kaizen Series (L-GY)

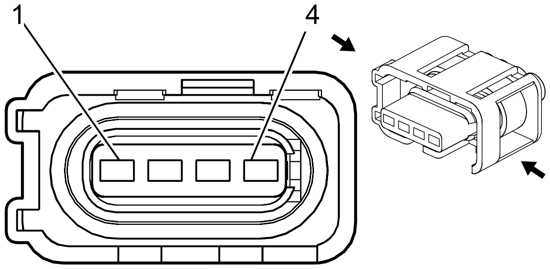
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available
II	13575816	J-35616-3 (GY)	J-38125-553	7114-4100-08	9	E	C

M31 Liftgate Motor (TB5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2	WH	5798	Lift Gate Open/Close Motor Open Control	I	-
2	0.35	BN/RD	5803	Lift Gate Position Sensor Voltage Reference	II	-
3	0.35	BK/L-GN	5804	Lift Gate Position Sensor Low Reference	II	-
4	2	BN/WH	5799	Lift Gate Open/Close Motor Close Control	I	-
5-6	-	-	-	Not Occupied	-	-
7	0.35	D-BU/WH	5805	Lift Gate Position Sensor Signal (1)	II	-
8	0.35	BN/YE	5806	Lift Gate Position Sensor Signal (2)	II	-

M33 Liftgate Window Latch Assembly



Connector Part Information

Harness Type: Liftgate

OEM Connector: 15489983

Service Connector: 88988815

Description: 4-Way F Timer Micro Pack III Series, Sealed (NA)

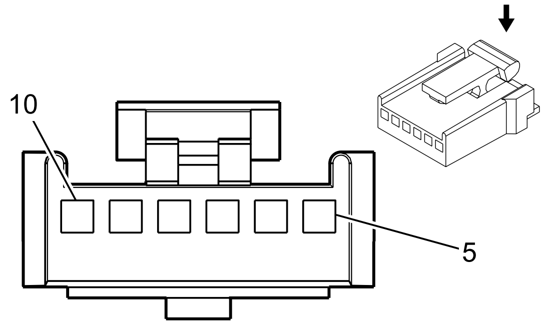
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available

M33 Liftgate Window Latch Assembly

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU/YE	6795	Lift Glass/Trunk Motor Release Control 2	I	-
2	0.5	BK	1450	Ground	I	-
3	0.35	BK	1450	Ground	I	-
4	0.35	VT/GY	1303	Lift Gate Ajar Switch Signal (1)	I	-

M37B Mode Door Actuator - Auxiliary



Connector Part Information

Harness Type: Auxiliary HVAC

OEM Connector: 2035363-3

Service Connector: Service by Harness — See Part Catalog

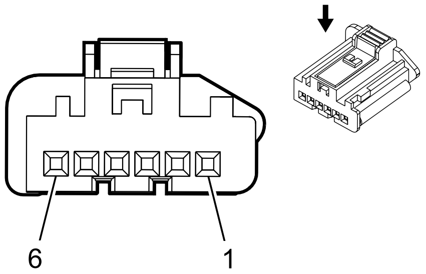
Description: 6-Way F (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-64B (L-BU)	Not Available	Not Available	Not Available	Not Available	Not Available

M37B Mode Door Actuator - Auxiliary

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/OG	5279	Mode Door Control	I	-
2	0.35	BK/GN	5730	Mode Door Control	I	-
3	—	—	—	Not Occupied	—	—
4	0.35	BK/YE	407	Sensor Low Reference	I	-
5	0.35	GY	2599	Rear Mode Motor Signal	I	-
6	0.35	GY/RD	598	5 Volt Reference	I	-



Connector Part Information

Harness Type: HVAC Jumper

OEM Connector: 12759936

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 0.64 Micro Quadlock Series (BK)

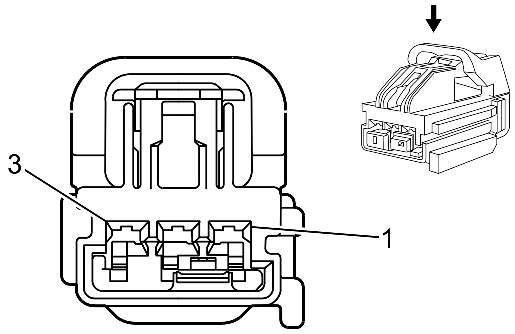
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M37L Mode Door Actuator - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK/YE	1791	Air Temperature Door Control Low Reference	I	-
2	0.35	WH/GN	2275	Mode 1 Valve Position Sensor Signal	I	-
3	0.35	GY/RD	598	5 Volt Reference	I	-
4	-	-	-	Not Occupied	-	-
5	0.35	WH	119	Mode Door Control	I	-
6	0.35	YE/BN	2273	Mode Door Control	I	-

M45 Rear Wiper Motor



Connector Part Information

Harness Type: Liftgate

OEM Connector: 10847008

Service Connector: 19149536

Description: 3-Way F 1.5 Kaizen Series (L-GY)

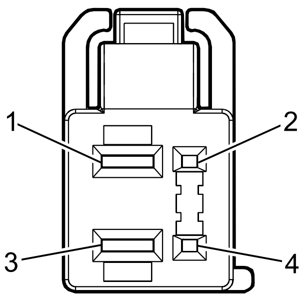
Terminal Part Information

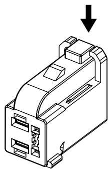
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

M45 Rear Wiper Motor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	1450	Ground	I	-
2	0.5	L-GN/GY	6135	Linear Interconnect Network Bus 4	I	-
3	0.75	RD/YE	3040	Battery Positive Voltage	I	-

M50D Seat Front Vertical Motor - Driver





Connector Part Information

Harness Type: Driver Seat Cushion

OEM Connector: 3-023-66-52

Service Connector: Service by Harness - See Part Catalog

Description: 4–Way F, 0.64, 2.8 Series (BK)

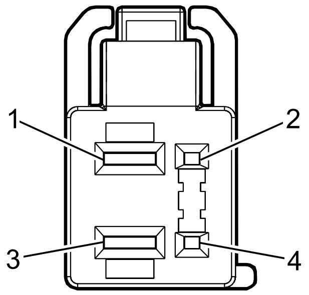
Terminal Part Information

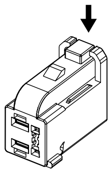
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M50D Seat Front Vertical Motor - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	L-GN/BN	286	Driver Power Seat Front Vertical Motor Up Control	I	-
2	0.35	WH/RD	3298	Memory Sensor High Reference (2)	I	A45
3	1.5	L-BU/VT	287	Driver Power Seat Front Vertical Motor Down Control	I	-
4	0.5	BN/WH	557	Memory Seat Front Vertical Motor Position Sensor Signal	I	A45

M50P Seat Front Vertical Motor - Passenger





Connector Part Information

Harness Type: Passenger Seat Cushion

OEM Connector: 3-023-66-52

Service Connector: Service by Harness - See Part Catalog

Description: 4–Way F, 0.64, 2.8 Series (BK)

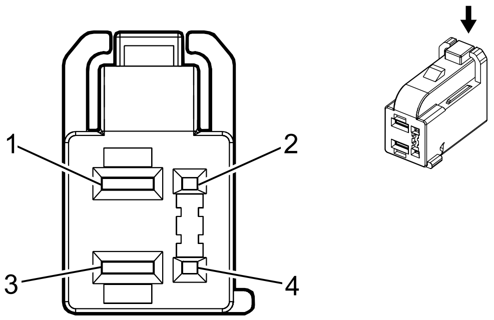
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M50P Seat Front Vertical Motor - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	L-GN/L-BU	298	Passenger Power Seat Front Vertical Motor Down Control	I	-
2	-	-	-	Not Occupied	-	-
3	1.5	L-GN/VT	297	Passenger Power Seat Front Vertical Motor Up Control	I	-
4	-	-	-	Not Occupied	-	-

M51D Seat Horizontal Motor - Driver



Connector Part Information

Harness Type: Driver Seat Cushion

OEM Connector: 3-023-66-52

Service Connector: Service by Harness - See Part Catalog

Description: 4–Way F, 0.64, 2.8 Series (BK)

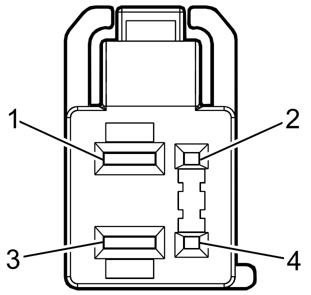
Terminal Part Information

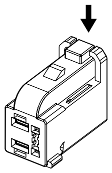
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M51D Seat Horizontal Motor - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	YE/L-BU	285	Driver Power Seat Horizontal Motor Forward Control	I	-
2	0.35	WH/RD	3298	Memory Sensor High Reference (2)	I	A45
3	1.5	GY/L-GN	284	Driver Power Seat Horizontal Motor Rearward Control	I	-
4	0.5	L-GN	569	Memory Seat Horizontal Motor Position Sensor Signal	I	A45

M51P Seat Horizontal Motor - Passenger





Connector Part Information

Harness Type: Passenger Seat Cushion

OEM Connector: 3-023-66-52

Service Connector: Service by Harness - See Part Catalog

Description: 4–Way F, 0.64, 2.8 Series (BK)

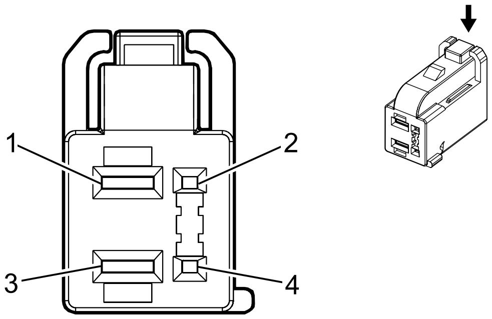
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M51P Seat Horizontal Motor - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	YE/L-BU	290	Passenger Power Seat Horizontal Motor Rearward Control	I	-
2	-	-	-	Not Occupied	-	-
3	1.5	YE/WH	296	Passenger Power Seat Horizontal Motor Forward Control	I	-
4	-	-	-	Not Occupied	-	-

M55D Seat Rear Vertical Motor - Driver



Connector Part Information

Harness Type: Driver Seat Cushion

OEM Connector: 3-023-66-52

Service Connector: Service by Harness - See Part Catalog

Description: 4–Way F, 0.64, 2.8 Series (BK)

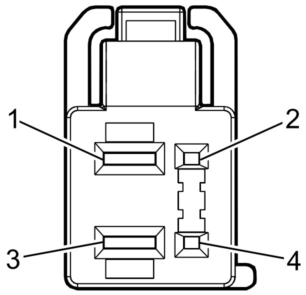
Terminal Part Information

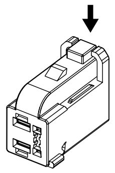
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M55D Seat Rear Vertical Motor - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	GY/L-BU	283	Driver Power Seat Rear Vertical Motor Down Control	I	-
2	0.35	WH/RD	3298	Memory Sensor High Reference (2)	I	A45
3	1.5	YE	282	Driver Power Seat Rear Vertical Motor Up Control	I	-
4	0.5	YE/L-BU	568	Memory Seat Rear Vertical Motor Position Sensor Signal	I	A45

M55P Seat Rear Vertical Motor - Passenger





Connector Part Information

Harness Type: Passenger Seat

OEM Connector: 3-023-66-52

Service Connector: Service by Harness - See Part Catalog

Description: 4–Way F, 0.64, 2.8 Series (BK)

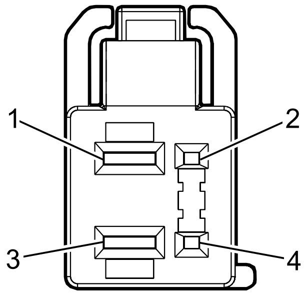
Terminal Part Information

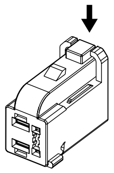
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M55P Seat Rear Vertical Motor - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	L-GN/WH	288	Passenger Power Seat Rear Vertical Motor Up Control	I	-
2	-	-	-	Not Occupied	-	-
3	1.5	L-BU/WH	289	Passenger Power Seat Rear Vertical Motor Down Control	I	-
4	-	-	-	Not Occupied	-	-

M56D Seat Recline Motor - Driver





Connector Part Information

Harness Type: Driver Seat Back

OEM Connector: 3-023-66-52

Service Connector: Service by Harness - See Part Catalog

Description: 4–Way F, 0.64, 2.8 Series (BK)

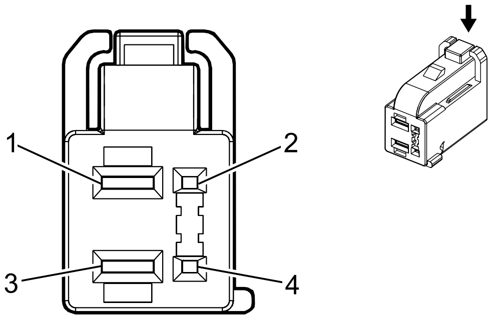
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M56D Seat Recline Motor - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	L-GN/YE	276	Driver Power Seat Recline Motor Forward Control	I	-
2	0.35	WH/RD	3298	Memory Sensor High Reference (2)	I	A45
3	1.5	L-BU/YE	277	Driver Power Seat Recline Motor Rearward Control	I	-
4	0.35	WH/BK	570	Driver Memory Seat Recline Motor Position Sensor Signal	I	A45

M56P Seat Recline Motor - Passenger



Connector Part Information

Harness Type: Passenger Seat Back

OEM Connector: 3-023-66-52

Service Connector: Service by Harness - See Part Catalog

Description: 4–Way F, 0.64, 2.8 Series (BK)

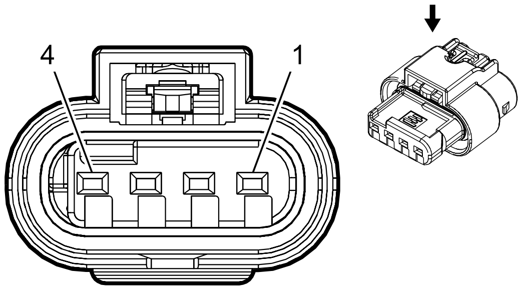
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M56P Seat Recline Motor - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	L-GN	76	Passenger Power Seat Recline Motor Forward	I	-
2	-	-	-	Not Occupied	-	-
3	1.5	L-BU/BN	77	Passenger Power Seat Recline Motor Rearward	I	-
4	-	-	-	Not Occupied	-	-

M60A Active Grille Air Shutter 1 Motor Module (IK9)



Connector Part Information

Harness Type: Active Shutter Jumper

OEM Connector: 13576420

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 1.2 MCP Series, Sealed (BK)

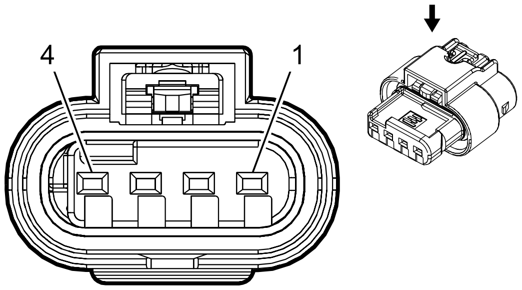
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M60A Active Grille Air Shutter 1 Motor Module (IK9)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN	3891	Aero Shutter Control	I	-
2	0.5	BK	250	Ground	I	-
3	0.5	WH/VT	4333	Aero Shutter Actuator Supply Voltage	I	-
4	-	-	-	Not Occupied	-	-

M60B Active Grille Air Shutter 2 Motor Module (IK9)



Connector Part Information

Harness Type: Active Shutter Jumper

OEM Connector: 13576420

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 1.2 MCP Series, Sealed (BK)

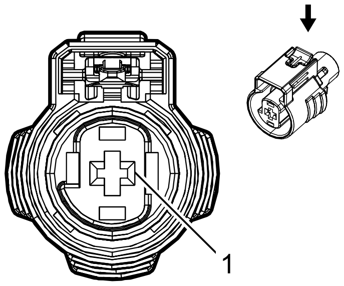
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M60B Active Grille Air Shutter 2 Motor Module (IK9)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY	3890	Aero Shutter Control 2	I	-
2	0.5	BK	250	Ground	I	-
3	0.5	WH/VT	4333	Aero Shutter Actuator Supply Voltage	I	-
4	-	-	-	Not Occupied	-	-

M64 Starter Motor X1



Connector Part Information

Harness Type: Engine

OEM Connector: 13895252

Service Connector: 19300471

Description: 1-Way F 2.8 MCP Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

M64 Starter Motor X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	4	YE	6	Starter Solenoid Crank Voltage	I	-

M64 Starter Motor X2

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Connector Part Information

Harness Type: Fuse Block - Starter Motor

OEM Connector: 13583845

Service Connector: Service by Cable Assembly – See Part Catalog

Description: 1-Way Ring Terminal

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	No Tool Required	No Tool Required	Not Available	Not Available	Not Available	Not Available

M64 Starter Motor X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	35	RD	1	Unfused Battery Positive Voltage	I	-

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Connector Part Information

Harness Type: Sunroof

OEM Connector: 6098–6097

Service Connector: Service by Harness – See Part Catalog

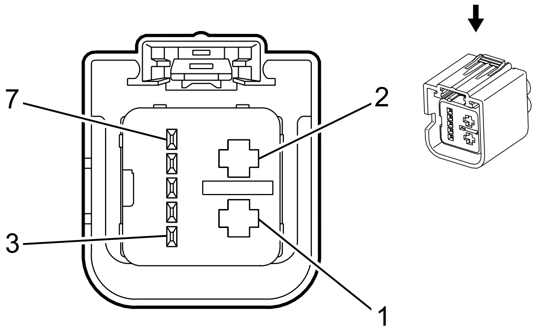
Description: 12-Way F (NA)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
III	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M69 Sunroof Motor (CF5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	VT/BN	300	Run Ignition 3 Voltage	I	-
2	0.35	BN/BU	2074	Sunroof Switch Express Signal	II	-
3	0.35	VT/YE	43	Accessory Ignition Voltage	II	-
4	0.35	YE/VT	144	Sunroof Switch Open Vent Signal	II	-
5	0.35	BU/WH	110	Sunroof Switch Close Signal	II	-
6	0.35	GY/VT	2075	Sunroof Switch Close Vent Signal	II	-
7	0.35	GN/WH	100	Sunroof Switch Open Signal	I	-
8	2	RD/GN	3140	Battery Positive Voltage	III	-
9	-	-	-	Not Occupied	-	-
10	-	-	-	Not Occupied	-	-
11	-	-	-	Not Occupied	-	-
12	2	BK	1050	Ground	III	-



Connector Part Information

Harness Type: Driver Door

OEM Connector: 13595813

Service Connector: No SDC/FSU

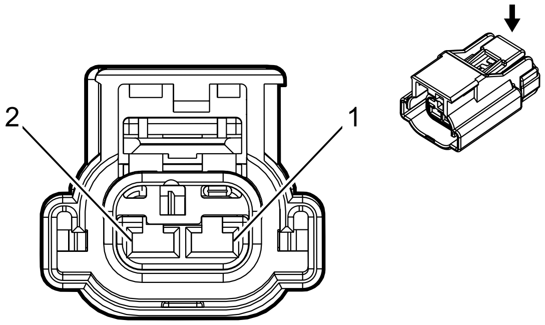
Description: 7-Way F 0.64, 2.8 Kaizen Timer Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-35 (VT)	J-38125-36	4-964273-1	15	C	5
II	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

M74D Window Motor - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	BK	1150	Ground	I	-
2	2.5	RD/D-BU	1842	Battery Positive Voltage	I	-
3	0.35	L-GN/WH	1300	Power Window Master Switch Left Front Up Signal	II	-
4	0.5	L-GN/YE	6134	Linear Interconnect Network Bus 3	II	-
5	0.35	L-GN/VT	7628	Power Window Motor Left Front Express Control	II	-
6	0.35	GY	745	Left Front Door Ajar Switch Signal	II	-
7	0.35	GY	1136	Power Window Master Switch Left Front Down Signal	II	-



Connector Part Information

Harness Type: Left Rear Door

OEM Connector: 13863838

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 2.8 Series, Sealed (BK)

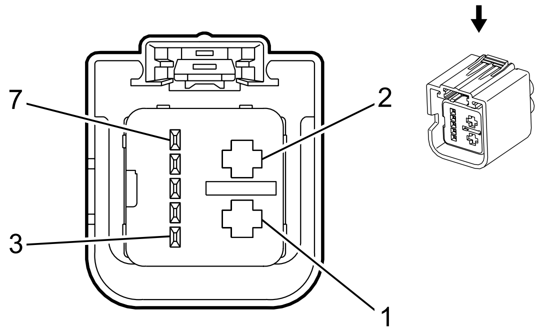
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579988	J-35616-35 (VT)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

M74LR Window Motor - Left Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	D-BU/VT	668	Power Window Motor Left Rear Up Control	I	-
2	2.5	YE/D-BU	669	Power Window Motor Left Rear Down Control	I	-

M74P Window Motor - Passenger



Connector Part Information

Harness Type: Passenger Door

OEM Connector: 13595813

Service Connector: No SDC/FSU

Description: 7-Way F 0.64, 2.8 Kaizen Timer Series, Sealed (BK)

Harness Type: Driver Door Trim

OEM Connector: 13595813

Service Connector: No SDC/FSU

Description: 7-Way F 0.64, 2.8 Kaizen Timer Series, Sealed (BK)

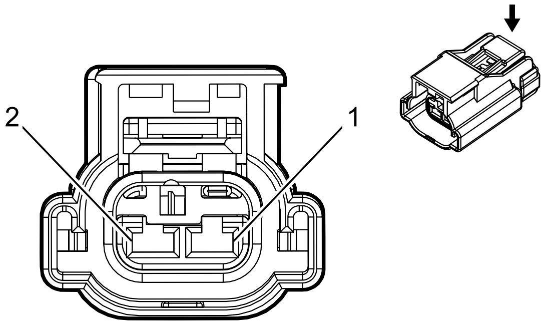
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-35 (VT)	J-38125-36	4-964273-1	15	C	5
II	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

M74P Window Motor - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	BK	1250	Ground	I	-
2	2.5	RD/WH	1340	Battery Positive Voltage	I	-
3	0.35	YE/BK	166	Power Window Master Switch Right Front Up Signal	II	-
4	0.5	L-GN/YE	6134	Linear Interconnect Network Bus 3	II	-
5	0.35	VT/GY	2765	Power Window Switch Right Front Express Signal	II	-
6	0.35	GY	746	Right Front Door Ajar Switch Signal	II	-
7	0.35	BN/YE	167	Power Window Master Switch Right Front Down Signal	II	-

M74RR Window Motor - Right Rear



Connector Part Information

Harness Type: Right Rear Door

OEM Connector: 13863838

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 2.8 Series, Sealed (BK)

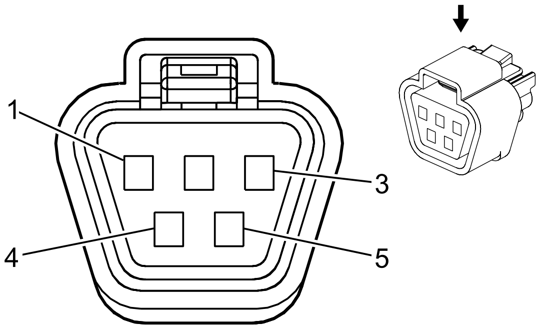
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579988	J-35616-35 (VT)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

M74RR Window Motor - Right Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	D-BU/GY	670	Power Window Motor Right Rear Up Control	I	-
2	2.5	L-GN/BK	671	Power Window Motor Right Rear Down Control	I	-

M75 Windshield Wiper Motor



Connector Part Information

Harness Type: Body

OEM Connector: 15316488

Service Connector: 13587179

Description: 5-Way F 090 Series, Sealed (GY)

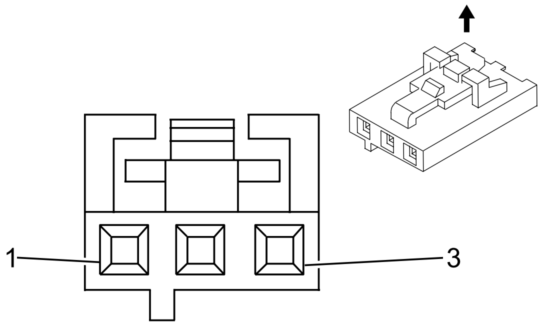
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13587512	J-35616-18 (BK)	J-38125-552	7116-4026	11	E	1
II	Pending	J-35616-18 (BK)	J-38125-552	7116-4025	11	E	1

M75 Windshield Wiper Motor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	YE/BN	95	Windshield Wiper Motor Low Speed Control	I	-
2	0.5	BK	1850	Ground	II	-
3	0.5	BN/L-GN	196	Windshield Wiper Motor Park Switch Signal	II	-
4	1	WH	92	Windshield Wiper Motor High Speed Control	I	-
5	1	BK	550	Ground	I	-

M77D Outside Rearview Mirror Motor – Driver (without A45)



Connector Part Information

Harness Type: Outside Rearview Mirror - Driver

OEM Connector: MHFD503B

Service Connector: Service by Component - See Part Catalog

Description: 3 Way F 0.64 SL Series (BK)

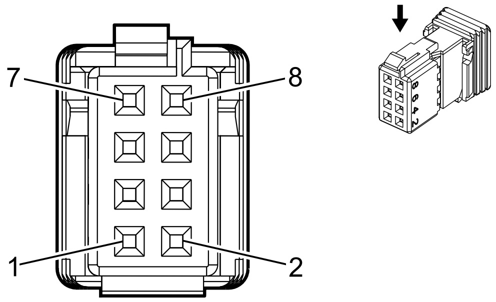
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M77D Outside Rearview Mirror Motor – Driver (without A45)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GN/WH	3389	Driver Mirror Motor Right (+) Left (-) Control	I	—
2	0.35	WH	3391	Driver Mirror Motor Common Control	I	—
3	0.35	OG/BK	3390	Driver Mirror Motor Up (+) Down (-) Control	I	—

M77D Outside Rearview Mirror Motor – Driver (A45)



Connector Part Information

Harness Type: Outside Rearview Mirror – Driver

OEM Connector: Not Available

Service Connector: Service by Component – See Part Catalog

Description: 8-Way F (L-GN)

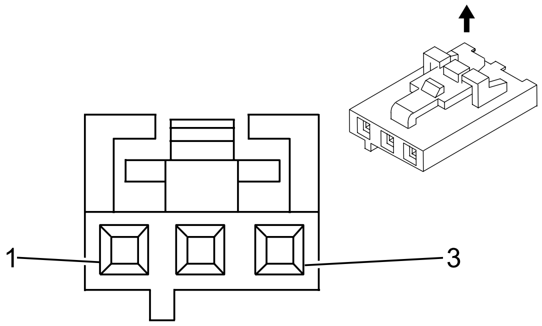
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M77D Outside Rearview Mirror Motor – Driver (A45)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BN	3392	Driver Mirror Position Sensor 5 Volt Reference	I	-
2	0.35	D-GN	3389	Driver Mirror Motor Right (+) Left (-) Control	I	-
3	0.35	D-GN	3394	Driver Mirror Position Sensor Up (+) Down (-) Signal	I	-
4	-	-	-	Not Occupied	-	-
5	0.35	D-BU	3393	Driver Mirror Position Sensor Low Reference	I	-
6	0.35	WH	3391	Driver Mirror Motor Common Control	I	-
7	0.35	GY	3395	Driver Mirror Position Sensor Left (-) Right (+) Signal	I	-
8	0.35	RD/BK	3390	Driver Mirror Motor Up (+) Down (-) Control	I	-

M77P Outside Rearview Mirror Motor – Passenger (without A45)



Connector Part Information

Harness Type: Outside Rearview Mirror - Driver

OEM Connector: MHFD503B

Service Connector: Service by Component - See Part Catalog

Description: 3 Way F 0.64 SL Series (BK)

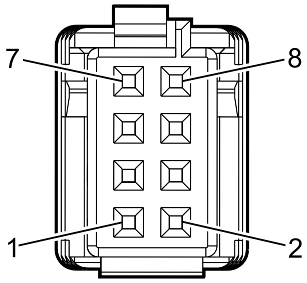
Terminal Part Information

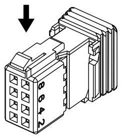
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M77P Outside Rearview Mirror Motor – Passenger (without A45)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GN/WH	3396	Passenger Mirror Motor Right (+) Left (-) Control	I	—
2	0.35	WH	3398	Passenger Mirror Motor Common Control	I	—
3	0.35	OG/BK	3397	Passenger Mirror Motor Up (+) Down (-) Control	I	—

M77P Outside Rearview Mirror Motor - Passenger (A45)





Connector Part Information

Harness Type: Outside Rearview Mirror – Passenger

OEM Connector: Not Available

Service Connector: Service by Component – See Part Catalog

Description: 8-Way F (L-GN)

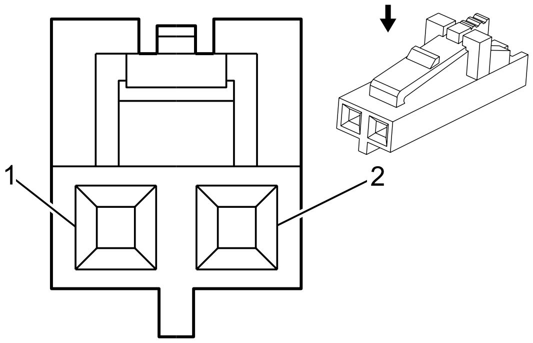
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M77P Outside Rearview Mirror Motor - Passenger (A45)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	L-GN	3399	Passenger Mirror Position Sensor 5 Volt Reference	I	-
2	0.35	D-GN/WH	3396	Passenger Mirror Motor Right (+) Left (-) Control	I	-
3	0.35	D-GN	3401	Passenger Mirror Position Sensor Up (+) Down (-) Signal	I	-
4	-	-	-	Not Occupied	-	-
5	0.35	D-BU	3400	Passenger Mirror Position Sensor Low Reference	I	-
6	0.35	WH	3398	Passenger Mirror Motor Common Control	I	-
7	0.35	GY	3403	Passenger Mirror Position Sensor Left (-) Right (+) Signal	I	-
8	0.35	RD/BK	3397	Passenger Mirror Motor Up (+) Down (-) Control	I	-

M78D Outside Rearview Mirror Folding Motor - Driver (DL3 or DR4)



Connector Part Information

Harness Type: Outside Rearview Mirror - Driver

OEM Connector: 50-57-9402

Service Connector: Service by Component - See Part Catalog

Description: 2–Way F 0.64 SL Series (BK)

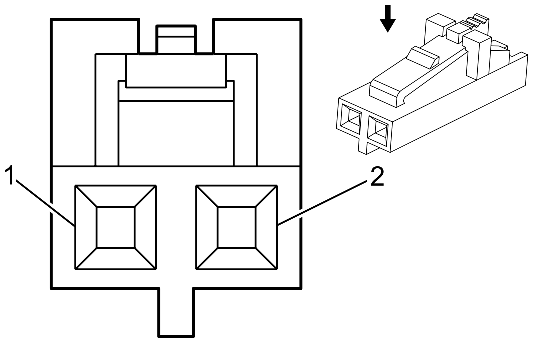
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M78D Outside Rearview Mirror Folding Motor - Driver (DL3 or DR4)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE	3411	Driver Mirror Motor Fold Out Control	I	—
2	0.35	L-BU	3412	Driver Mirror Motor Fold In Control	I	—

M78P Outside Rearview Mirror Folding Motor - Passenger (DL3 or DR4)



Connector Part Information

Harness Type: Outside Rearview Mirror - Passenger

OEM Connector: 50-57-9402

Service Connector: Service by Component - See Part Catalog

Description: 2–Way F 0.64 SL Series (BK)

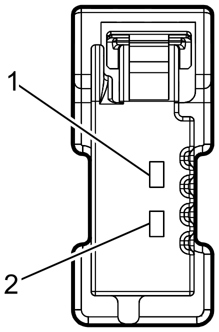
Terminal Part Information

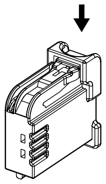
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M78P Outside Rearview Mirror Folding Motor - Passenger (DL3 or DR4)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE	3413	Passenger Mirror Motor Fold Out Control	I	—
2	0.35	L-BU	3414	Passenger Mirror Motor Fold In Control	I	—

M91 Instrument Panel Compartment Door Unlatch Actuator (Z75)





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13608099

Service Connector: 13314097

Description: 2-Way F 1.5 Series (GY)

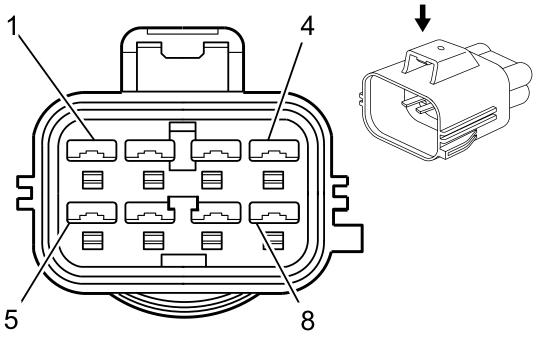
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575790	J-35616-2A (GY)	J-38125-553	15496302	5	E	A
II	13575790	J-35616-2A (GY)	J-38125-553	15496302	5	2	A
III	13575790	J-35616-2A (GY)	J-38125-553	8240-0127	22	E	C

M91 Instrument Panel Compartment Door Unlatch Actuator (Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/GY	4048	Glove Box Door Release Control	I	-
2	1 0.35	BK BK	1050 1050	Ground Ground	II	-

M95L Assist Step - Left (BRS)



Connector Part Information

Harness Type: Chassis

OEM Connector: 15419459

Service Connector: 19167744

Description: 8-Way M 2.8 Series, Sealed (D-GY)

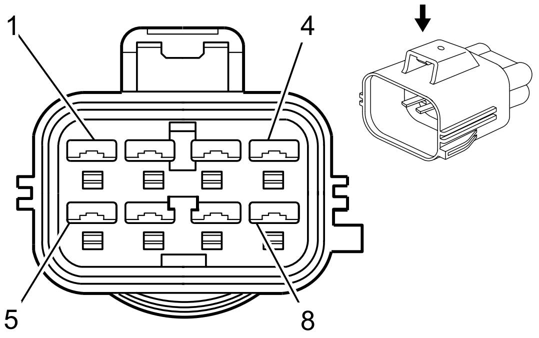
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

M95L Assist Step - Left (BRS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2	WH/BN	7471	Articulating Running Boards Motor Left Control Extend	I	-
2	0.5	VT/RD	7468	Running Boards Motor Hall Sensor Left Reference	I	-
3	0.5	YE	7467	Running Boards Motor Hall Sensor Left Signal	I	-
4	0.5	YE/BN	7466	Running Boards Motor Hall Sensor Left Return	I	-
5	2	GY	7472	Articulating Running Boards Motor Left Control Retract	I	-
6	-	-	-	Not Occupied	-	-
7	0.5	GY/L-GN	5996	Driver Outside Rear View Mirror Puddle Lamp Supply Voltage	I	-
8	0.5	BK	1750	Ground	I	-

M95R Assist Step - Right (BRS)



Connector Part Information

Harness Type: Chassis

OEM Connector: 15419459

Service Connector: 19167744

Description: 8-Way M 2.8 Series, Sealed (D-GY)

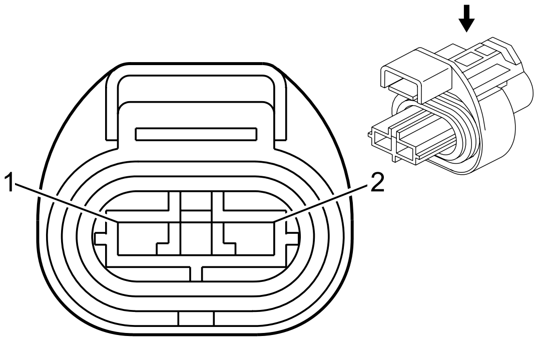
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

M95R Assist Step - Right (BRS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2	D-BU	7470	Articulating Running Boards Motor Right Control Extend	I	-
2	0.5	L-GN/RD	7464	Running Boards Motor Hall Sensor Right Reference	I	-
3	0.5	VT	7465	Running Boards Motor Hall Sensor Right Signal	I	-
4	0.5	YE/BK	7463	Running Boards Motor Hall Sensor Right Return	I	-
5	2	L-GN	7469	Articulating Running Boards Motor Right Control Retract	I	-
6	-	-	-	Not Occupied	-	-
7	0.5	GY/L-GN	5996	Driver Outside Rear View Mirror Puddle Lamp Supply Voltage	I	-
8	0.5	BK	1750	Ground	I	-

M97 Fuel Door Lock Actuator



Connector Part Information

Harness Type: Chassis

OEM Connector: 13548106

Service Connector: 13314083

Description: 2-Way F 1.2 Timer Series, Sealed (BK)

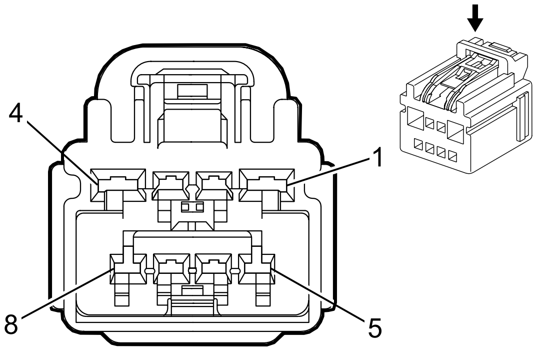
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13584470	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1

M97 Fuel Door Lock Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BN/YE	294	Door Lock Actuator Unlock Control	I	-
2	0.75	GY	5911	Door Lock Actuator Lock Control 2	I	-

M101L Seat Belt Retractor Motor Module - Left (AX7)



Connector Part Information

Harness Type: Body

OEM Connector: 10847007

Service Connector: 19153181

Description: 8-Way F YESC Kaizen Series (L-GY)

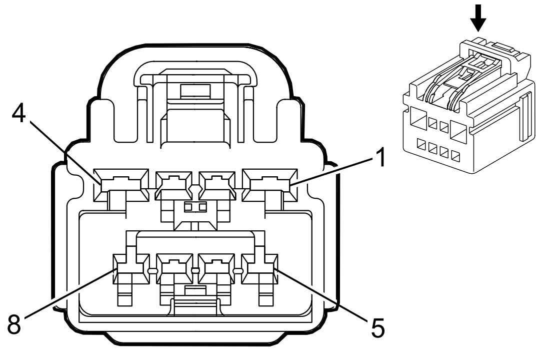
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575543	J-35616-35 (VT)	J-38125-12A	1326030-8	17	B	F
II	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available
III	13575809	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	E	2

M101L Seat Belt Retractor Motor Module - Left (AX7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	4	BK	1150	Ground	I	-
2	0.35	WH/D-BU	5986	Serial Data Communication Enable	II	-
3	-	-	-	Not Occupied	-	-
4	4	RD/WH	4042	Battery Positive Voltage	I	-
5	0.5	WH	6106	High Speed GMLAN Serial Data (-) (2)	III	-
6	0.5	WH	6106	High Speed GMLAN Serial Data (-) (2)	III	-
7	0.5	D-BU/YE	6105	High Speed GMLAN Serial Data (+) (2)	III	-
8	0.5	D-BU/YE	6105	High Speed GMLAN Serial Data (+) (2)	III	-

M101R Seat Belt Retractor Motor Module - Right (AX7)



Connector Part Information

Harness Type: Body

OEM Connector: 10847007

Service Connector: 19153181

Description: 8-Way F YESC Kaizen Series (L-GY)

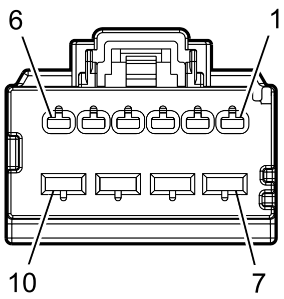
Terminal Part Information

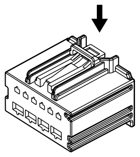
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575543	J-35616-35 (VT)	J-38125-12A	1326030-8	17	B	F
II	13575809	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	E	2

M101R Seat Belt Retractor Motor Module - Right (AX7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	4	BK	1250	Ground	I	-
2	0.35	WH/D-BU	5986	Serial Data Communication Enable	II	-
3	-	-	-	Not Occupied	-	-
4	4	RD/GY	1042	Battery Positive Voltage	I	-
5	0.5	WH	6106	High Speed GMLAN Serial Data (-) (2)	II	-
6	0.5	WH	6106	High Speed GMLAN Serial Data (-) (2)	II	-
7	0.5	D-BU/YE	6105	High Speed GMLAN Serial Data (+) (2)	II	-
8	0.5	D-BU/YE	6105	High Speed GMLAN Serial Data (+) (2)	II	-

M107LR Folding Seat Motor - 2nd Row Left (ATN or ATT)





Connector Part Information

Harness Type: 2nd Row Seat Left

OEM Connector: 31372-1100

Service Connector: Service by Harness - See Part Catalog

Description: 10-Way F 1.5, 2.8 Series (GY)

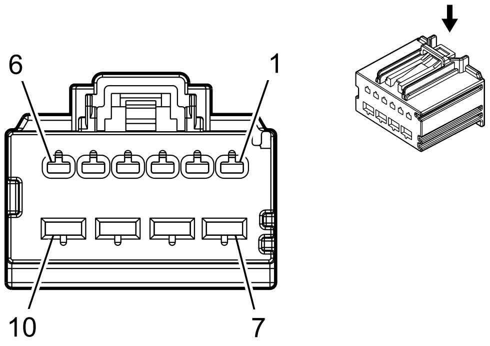
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M107LR Folding Seat Motor - 2nd Row Left (ATN or ATT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	RD/L-BU	1240	Battery Positive Voltage	I	-
B	0.75	GY	1150	Ground	I	-
C	0.5	L-GN	6808	Left Rear Seat Fold Tumble Control	I	-
D-J	-	-	-	Not Occupied	-	-

M107RR Folding Seat Motor - 2nd Row Right (ATN or ATT)



Connector Part Information

Harness Type: 2nd Row Seat Right

OEM Connector: 31372-1100

Service Connector: Service by Harness - See Part Catalog

Description: 10-Way F 1.5, 2.8 Series (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M107RR Folding Seat Motor - 2nd Row Right (ATN or ATT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	RD	1240	Battery Positive Voltage	I	-
B	0.75	GY	1250	Ground	I	-
C	0.5	BN	6809	Right Rear Seat Fold Tumble Control	I	-
D-J	-	-	-	Not Occupied	-	-

M108LR Folding Seat Motor - 3rd Row Left (AS8)

Connector Part Information

Harness Type: 3rd Row Seat Left

OEM Connector: 3-023-66-52

Service Connector: Service by Harness - See Part Catalog

Description:

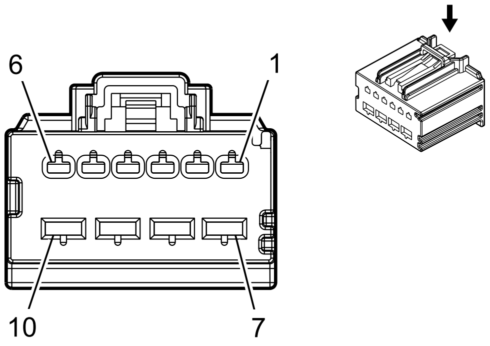
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M108LR Folding Seat Motor - 3rd Row Left (AS8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5 1.5	RD	9002 9001		I	-
2	1.5 0.35	YE/L-BU	9001 9010		I	-
3	1.5	RD	9002		I	-
4	0.35	BN/WH	9009		I	-

M108RR Folding Seat Motor - 3rd Row Right (AS8)



Connector Part Information

Harness Type: 3rd Row Seat Right

OEM Connector: 31372-1100

Service Connector: Service by Harness - See Part Catalog

Description: 10-Way F 1.5, 2.8 Series (GY)

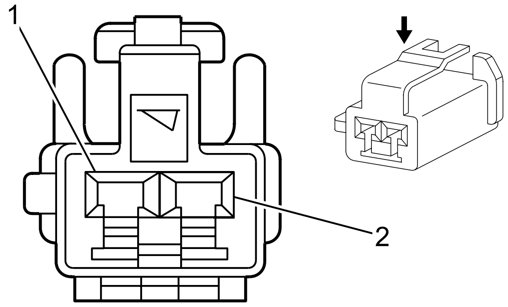
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M108RR Folding Seat Motor - 3rd Row Right (AS8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5 1.5	L-BU OG	9006 9005		I	-
2	1.5 0.35	OG WH/RD	9005 9012		I	-
3	1.5	L-BU	9006		I	-
4	0.35	WH/BK	9011		I	-
5-10	-	-	-	Not Occupied	-	-

M109LR Folding Seat Back Unlatch Motor - 3rd Row Left (AS8)



Connector Part Information

Harness Type: 3rd Row Seat Left

OEM Connector: 7283-6160

Service Connector: 88953305

Description: 2-Way F 090 Series (NA)

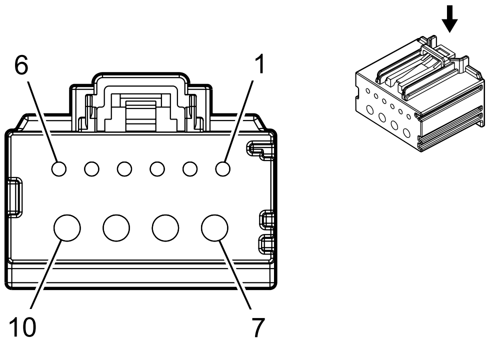
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M109LR Folding Seat Back Unlatch Motor - 3rd Row Left (AS8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	YE/WH	9004		I	-
2	1.5	GY	9003		I	-

M109RR Folding Seat Back Unlatch Motor - 3rd Row Right (AS8)



Connector Part Information

Harness Type: 3rd Row Seat Right

OEM Connector: 31372-1000

Service Connector: Service by Harness - See Part Catalog

Description: 10-Way F 1.5, 2.8 Series (BK)

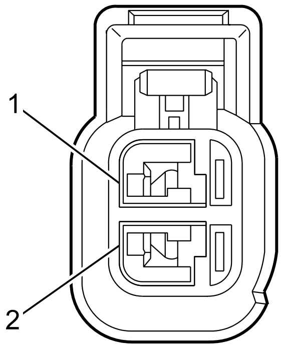
Terminal Part Information

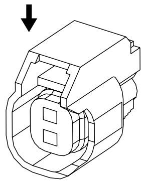
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M109RR Folding Seat Back Unlatch Motor - 3rd Row Right (AS8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	RD/GY	9008		I	-
2	1.5	L-GN	9007		I	-
3-10	-	-	-	Not Occupied	-	-

P12 Horn





Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 13594801

Service Connector: 13585854

Description: 2-Way F 150 GT Series, Sealed (BK)

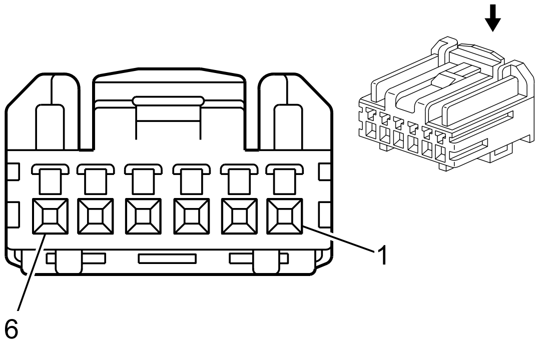
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13584446	J-35616-2A (GY)	J-38125-553	12191819	8	2	1

P12 Horn

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	150	Ground	I	-
2	0.75	BN/GY	29	Horn Control	I	-

P14 Passenger Air Bag Disabled Indicator



Connector Part Information

Harness Type: Overhead Console

OEM Connector: 13608102

Service Connector: 19153174

Description: 6-Way F 0.64 HCM Series (NA)

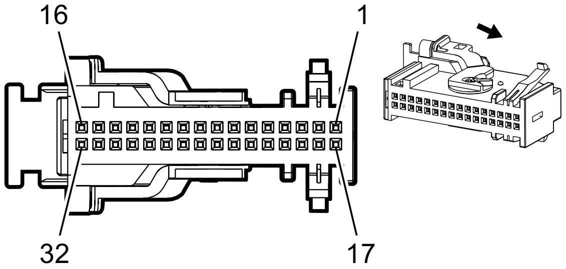
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575868	J-35616-64B (L-BU)	J-38125-12A	SHCM-A03T-P025	20	J	J

P14 Passenger Air Bag Disabled Indicator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	D-BU	2307	Passenger Air Bag On Indicator Control	I	-
2	0.5	BK	1050	Ground	I	-
3	0.35	L-GN	2308	Passenger Air Bag Off Indicator Control	I	-
4	0.35	VT/WH	1139	Run/Crank Ignition 1 Voltage	I	-
5	0.35	VT/WH	5234	Passenger Seat Belt Indicator	I	-
6	-	-	-	Not Occupied	-	-

P16 Instrument Cluster X1



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12198036

Service Connector: 88988405

Description: 32-Way F 0.64 Micro Quadlok Series (BK)

Terminal Part Information

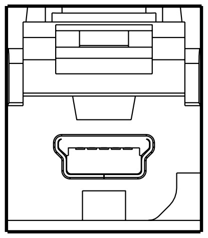
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575521	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	J	J
II	13575521	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	H	H
III	13575783	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	J	J
IV	13575783	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	H	H

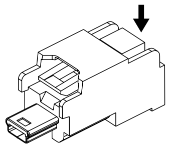
P16 Instrument Cluster X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/L-GN	3997	MOST Serial Data (-)	I	-
2	0.5	GY/VT	3998	MOST Serial Data (+)	I	-
3	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	-
4	-	-	-	Not Occupied	-	-
5	0.35	WH/VT	3999	MOST Control	IV	-
6	-	-	-	Not Occupied	-	-
7	0.5	RD/GY	2840	Battery Positive Voltage	III	-
8	0.5	VT/BK	1639	Run/Crank Ignition 1 Voltage	I	-
9-11	-	-	-	Not Occupied	-	-
12	0.35	GY/YE	3885	Forward Collision Alert LED Control	II	UEU or UFL without UV6
13-15	-	-	-	Not Occupied	-	-
16	0.35	BN/WH	419	Check Engine Indicator Control	II	-

17	0.5	GY/VT	3998	MOST Serial Data (+)	III	-
18	0.5	WH/L-GN	3997	MOST Serial Data (-)	III	-
19	0.5	BK/WH	1851	Signal Ground	I	-
20	0.5	L-GN/BK	3894	Linear Interconnect Network Bus 12	I	-
21	0.5	L-GN/BK	3894	Linear Interconnect Network Bus 12	I	UDV with UV6
22-23	-	-	-	Not Occupied	-	-
24	0.35	VT	185	Low Washer Fluid Indicator Control	II	-
25-29	-	-	-	Not Occupied	-	-
30	0.35	WH/L-GN	3535	Reflected LED Display Dimming Control	II	UEU or UFL without UV6
31-32	-	-	-	Not Occupied	-	-

P16 Instrument Cluster X2 (UV6 without Z75)





Connector Part Information

Harness Type: Instrument Panel LVDS

OEM Connector: 13585546

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 5-Way M 2.0 Mini B USB Type (BK)

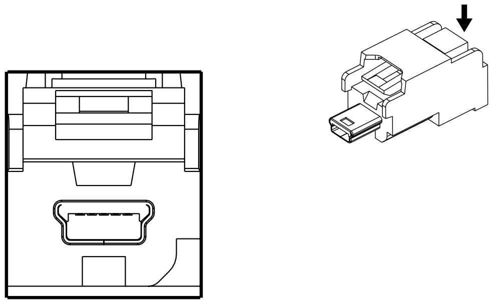
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

P16 Instrument Cluster X2 (UV6 without Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	LVDS	—	Head—Up Display Signal	I	—

P16 Instrument Cluster X2 (UV6 with Z75)



Connector Part Information

Harness Type: Instrument Panel LVDS

OEM Connector: 13584750

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 5-Way M 2.0 Mini B USB Type (BK)

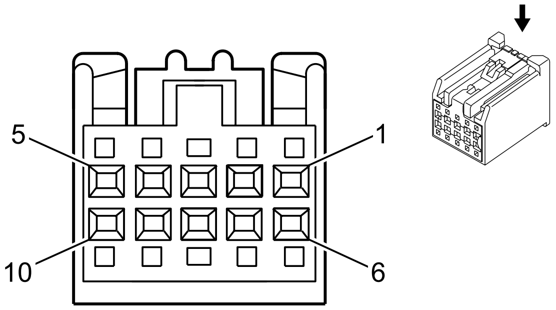
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

P16 Instrument Cluster X2 (UV6 with Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	LVDS	—	Head—Up Display Signal	I	—

P17 Info Display Module X1 (X88 or Z88)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13815336

Service Connector: 13577390

Description: 10-Way F 0.64 Kaizen Series (BK)

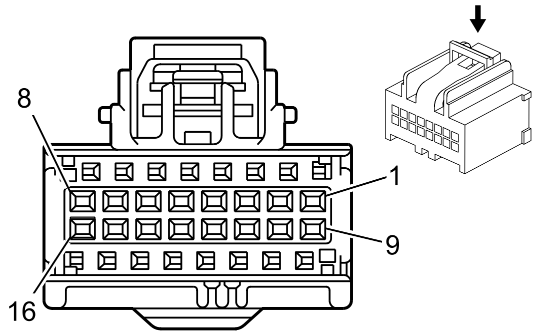
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

P17 Info Display Module X1 (X88 or Z88)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/GY	2840	Battery Positive Voltage	I	-
2	-	-	-	Not Occupied	-	-
3	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	-
4	-	-	-	Not Occupied	-	-
5	0.5	L-GN/D-BU	7532	Linear Interconnect Network Bus 10	I	-
6-7	-	-	-	Not Occupied	-	-
8	0.5	L-GN/WH	7527	Linear Interconnect Network Bus 5	I	-
9	-	-	-	Not Occupied	-	-
10	0.35	BK	2550	Ground	I	-

P17 Info Display Module X1 (Z75)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15491285

Service Connector: 15136073

Description: 16-Way F Kaizen 64 Series (BK)

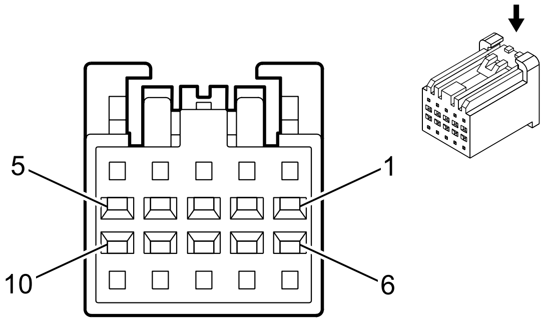
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

P17 Info Display Module X1 (Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-5	-	-	-	Not Occupied	-	-
6	0.5	L-GN/WH	7527	Linear Interconnect Network Bus 5	I	-
7	0.5	L-GN/D-BU	7532	Linear Interconnect Network Bus 10	I	-
8	0.35	L-GN/YE	7531	Linear Interconnect Network Bus 9	I	-
9	0.5	RD/GY	2840	Battery Positive Voltage	I	-
10-11	-	-	-	Not Occupied	-	-
12	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	-
13-15	-	-	-	Not Occupied	-	-
16	0.35	BK	2550	Ground	I	-

P17 Info Display Module X2



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13876499

Service Connector: 19299775

Description: 10-Way F 0.64 Kaizen Series (GY)

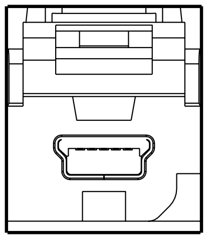
Terminal Part Information

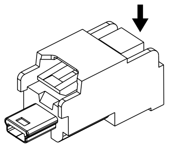
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

P17 Info Display Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/GY	2840	Battery Positive Voltage	I	-
2	-	-	-	Not Occupied	-	-
3	0.35	L-GN	5060	Low Speed GMLAN Serial Data	I	-
4-8	-	-	-	Not Occupied	-	-
9	0.35	L-GN/YE	7531	Linear Interconnect Network Bus 9	I	-
10	0.35	BK	2550	Ground	I	-

P17 Info Display Module X3 (IO3)





Connector Part Information

Harness Type: Instrument Panel LVDS

OEM Connector: 13585076

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 5-Way M 2.0 Mini B USB Type (BK)

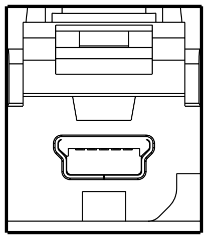
Terminal Part Information

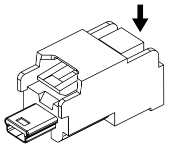
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

P17 Info Display Module X3 (IO3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	LVDS	—	Radio Display Signal	I	—

P17 Info Display Module X3 (IO5 or IO6 without U42 or Z75)





Connector Part Information

Harness Type: Instrument Panel LVDS

OEM Connector: 13585072

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 5-Way M 2.0 Mini B USB Type (BK)

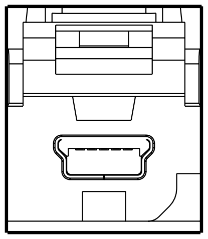
Terminal Part Information

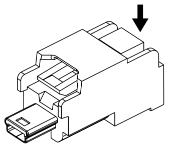
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

P17 Info Display Module X3 (IO5 or IO6 without U42 or Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	LVDS	—	Navigation Display Signal	I	—

P17 Info Display Module X3 (IO5 or IO6 with U42, without Z75)





Connector Part Information

Harness Type: Instrument Panel LVDS

OEM Connector: 13587999

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 5-Way M 2.0 Mini B USB Type (BK)

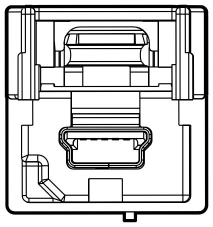
Terminal Part Information

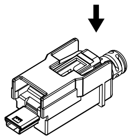
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

P17 Info Display Module X3 (IO5 or IO6 with U42, without Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	LVDS	—	Navigation Display Signal	I	—

P17 Info Display Module X3 (IO6 with Z75)





Connector Part Information

Harness Type: Instrument Panel LVDS

OEM Connector: 13584751

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 5-Way M 2.0 Mini B USB Type (GY)

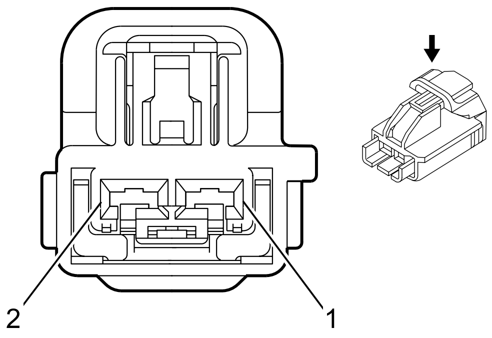
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

P17 Info Display Module X3 (IO6 with Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	LVDS	—	Navigation Display Signal	I	—

P19AC Speaker - Subwoofer (UQA, UQH or UQS)



Connector Part Information

Harness Type: Body

OEM Connector: 10846819

Service Connector: Pending

Description: 2-Way F Kaizen YESC Series (L-GY)

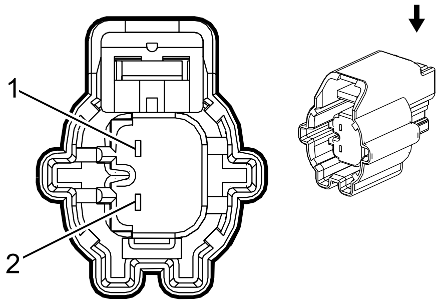
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575295	J-35616-35 (VT)	J-38125-11A	7116-4112-02	9	C	D

P19AC Speaker - Subwoofer (UQA, UQH or UQS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	D-BU/GY	346	Left/Rear Subwoofer Speaker (+)	I	-
2	2.5	GY/BK	315	Right Subwoofer Speaker (-)	I	-

P19AG Speaker - Left Front Door



Connector Part Information

Harness Type: Driver Door

OEM Connector: 13665501

Service Connector: Service by Harness - See Part Catalog

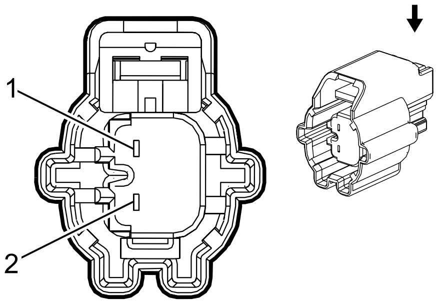
Description: 2-Way F 150 GT Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327111	J-35616-2A (GY)	J-38125-553	12191812	19	C	A

P19AG Speaker - Left Front Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BN/D-BU	118	Left Front Speaker Signal (-) (1)	I	-
2	1	D-BU	201	Left Front Speaker (+) (1)	I	-



Connector Part Information

Harness Type: Passenger Door

OEM Connector: 13665501

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 150 GT Series (BK)

Harness Type: Driver Door Trim

OEM Connector: 13665501

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 150 GT Series (BK)

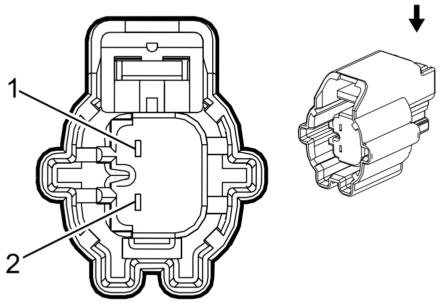
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327111	J-35616-2A (GY)	J-38125-553	12191812	19	C	A

P19AH Speaker - Right Front Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	YE/BK	117	Right Front Speaker Signal (-) (1)	I	-
2	1	YE	200	Right Front Speaker (+) (1)	I	-

P19AL Speaker - Left Rear Door



Connector Part Information

Harness Type: Left Rear Door

OEM Connector: 13665501

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 150 GT Series (BK)

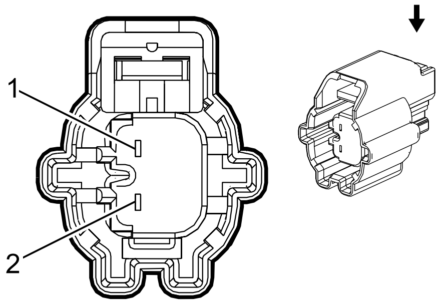
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327111	J-35616-2A (GY)	J-38125-553	12191812	19	C	A

P19AL Speaker - Left Rear Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	L-GN/BK	116	Left Rear Speaker Signal (-)	I	-
2	1	L-GN	199	Left Rear Speaker (+)	I	-

P19AM Speaker - Right Rear Door



Connector Part Information

Harness Type: Right Rear Door

OEM Connector: 13665501

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 150 GT Series (BK)

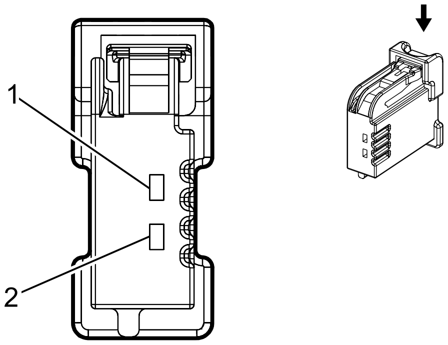
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327111	J-35616-2A (GY)	J-38125-553	12191812	19	C	A

P19AM Speaker - Right Rear Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	D-BU/BK	115	Right Rear Speaker Signal (-)	I	-
2	1	WH	46	Right Rear Speaker (+)	I	-

P19AN Speaker - Left Rear Trim Panel (UQA, UQH or UQS)



Connector Part Information

Harness Type: Body

OEM Connector: 13608099

Service Connector: 13314097

Description: 2-Way F 1.5 Series (GY)

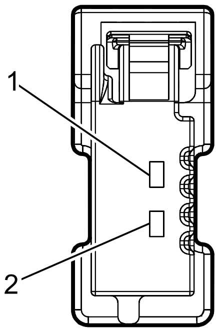
Terminal Part Information

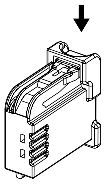
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575790	J-35616-2A (GY)	J-38125-553	15496302	5	2	A

P19AN Speaker - Left Rear Trim Panel (UQA, UQH or UQS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	WH/BK	1959	Left Rear Midrange Speaker (-)	I	-
2	1	YE/BN	1859	Left Rear Midrange Speaker (+)	I	-

P19AP Speaker - Right Rear Trim Panel (UQA, UQH or UQS)





Connector Part Information

Harness Type: Body

OEM Connector: 13608099

Service Connector: 13314097

Description: 2-Way F 1.5 Series (GY)

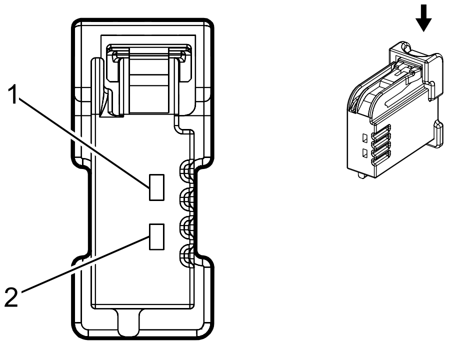
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327201	J-35616-2A (GY)	J-38125-553	8240-0128	22	C	A
II	13575790	J-35616-2A (GY)	J-38125-553	15496302	5	2	A

P19AP Speaker - Right Rear Trim Panel (UQA, UQH or UQS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	WH/BK	1959	Left Rear Midrange Speaker (-)	I	-
2	1	YE/BN	1859	Left Rear Midrange Speaker (+)	II	-

P19B Speaker - Center Instrument Panel (UQH or UQS)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13608099

Service Connector: 13314097

Description: 2-Way F 1.5 Series (GY)

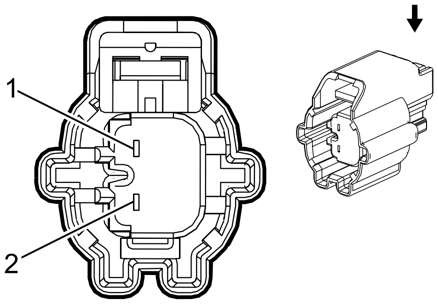
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575790	J-35616-2A (GY)	J-38125-553	15496302	5	2	A

P19B Speaker - Center Instrument Panel (UQH or UQS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	D-BU/YE	1960	Front Center Speaker (-)	I	-
2	0.75	YE/WH	1860	Front Center Speaker (+)	I	-

P19DD Speaker - Left Front Door Woofer (UQH)



Connector Part Information

Harness Type: Driver Door

OEM Connector: 13665501

Service Connector: Service by Harness - See Part Catalog

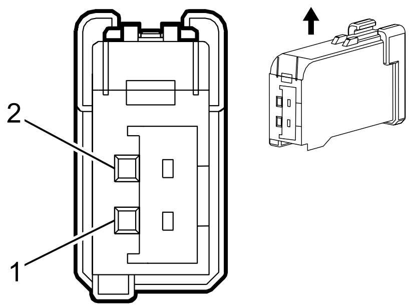
Description: 2-Way F 150 GT Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327111	J-35616-2A (GY)	J-38125-553	12191812	19	C	A

P19DD Speaker - Left Front Door Woofer (UQH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BN/D-BU	118	Left Front Speaker Signal (-) (1)	I	-
2	1	D-BU	201	Left Front Speaker (+) (1)	I	-



Connector Part Information

Harness Type: Driver Door Trim

OEM Connector: 13595633

Service Connector: 13314097

Description: 2-Way F 0.64 Kaizen Series (BK)

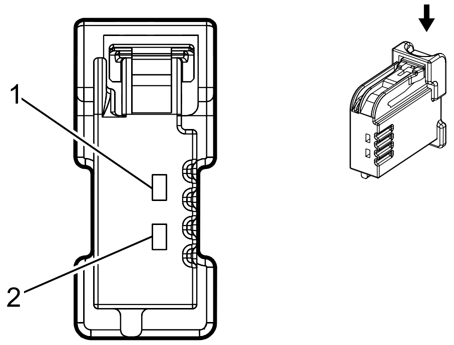
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

P19HD Speaker - Left Front Door Tweeter (UQH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	D-BU	201	Left Front Speaker Control (+) (1)	I	-
2	0.75	BN/BU	118	Left Front Speaker Signal (-) (1)	I	-

P19J Speaker - Left Instrument Panel (except UQG)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13608099

Service Connector: 13314097

Description: 2-Way F 1.5 Series (GY)

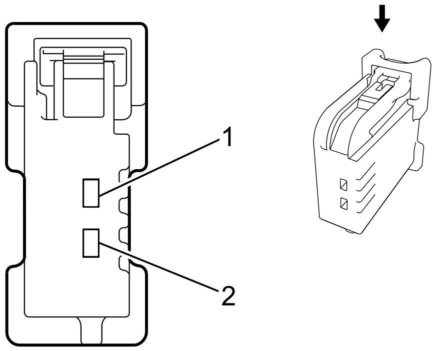
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575790	J-35616-2A (GY)	J-38125-553	15496302	5	2	A

P19J Speaker - Left Instrument Panel (except UQG)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	YE/GY	1956	Left Front Tweeter Speaker (-)	I	-
2	0.75	YE/D-BU	1856	Left Front Tweeter Speaker (+)	I	-

P19J Speaker - Left Instrument Panel (UQG)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13595207

Service Connector: 13584097

Description: 2-Way F 0.64, 1.5 Series (BK)

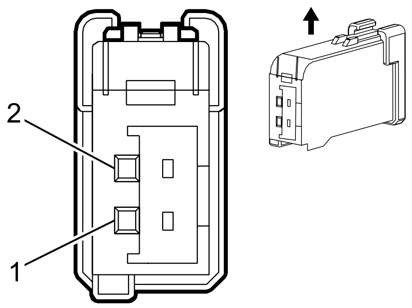
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575790	J-35616-2A (GY)	J-38125-553	8240-0127	22	E	C
II	13575790	J-35616-2A (GY)	J-38125-553	15496302	5	E	A

P19J Speaker - Left Instrument Panel (UQG)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/D-BU	118	Left Front Speaker Signal (-) (1)	I	-
2	0.5	D-BU	201	Left Front Speaker (+) (1)	I	-

P19M Speaker - Left Rear Tweeter (UQH)



Connector Part Information

Harness Type: Right Rear Door Trim

OEM Connector: 13595633

Service Connector: 13314093

Description: 2-Way F 0.64 Kaizen Series (BK)

Harness Type: Driver Door Trim

OEM Connector: 13595633

Service Connector: 13314093

Description: 2-Way F 0.64 Kaizen Series (BK)

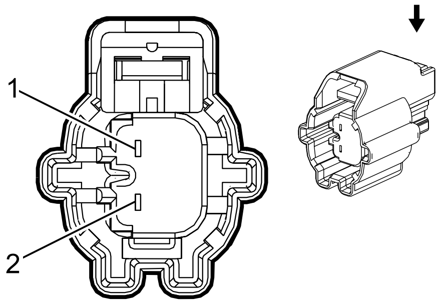
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579945	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

P19M Speaker - Left Rear Tweeter (UQH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	L-GN/BK	116	Left Rear Speaker Signal (-)	I	-
2	0.75	L-GN	199	Left Rear Speaker (+)	I	-

P19PD Speaker - Right Front Door Woofer (UQH)



Connector Part Information

Harness Type: Passenger Door

OEM Connector: 13665501

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 150 GT Series (BK)

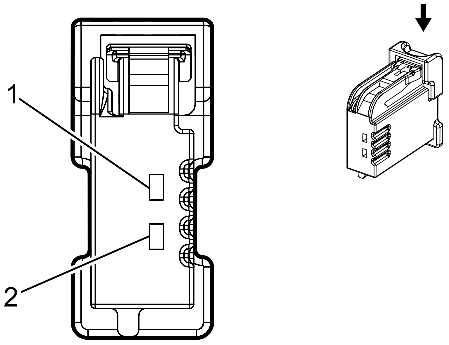
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327111	J-35616-2A (GY)	J-38125-553	12191812	19	C	A

P19PD Speaker - Right Front Door Woofer (UQH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	YE/BK	117	Right Front Speaker Signal (-) (1)	I	-
2	1	YE	200	Right Front Speaker (+) (1)	I	-

P19VD Speaker - Right Front Door Tweeter (UQH)



Connector Part Information

Harness Type: Passenger Door Trim

OEM Connector: 13595633

Service Connector: 13314097

Description: 2-Way F 0.64 Kaizen Series (BK)

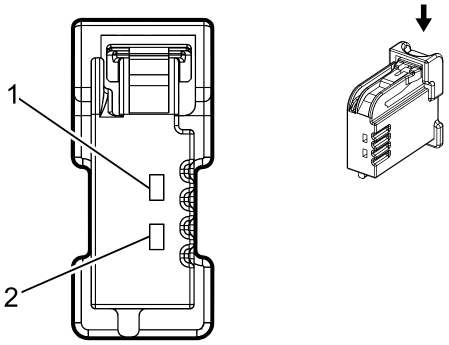
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

P19VD Speaker - Right Front Door Tweeter (UQH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	YE	200	Right Front Speaker (+) (1)	I	-
2	0.75	YE/BK	117	Right Front Speaker Signal (-) (1)	I	-

P19W Speaker - Right Instrument Panel (except UQG)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13608099

Service Connector: 13314097

Description: 2-Way F 1.5 Series (GY)

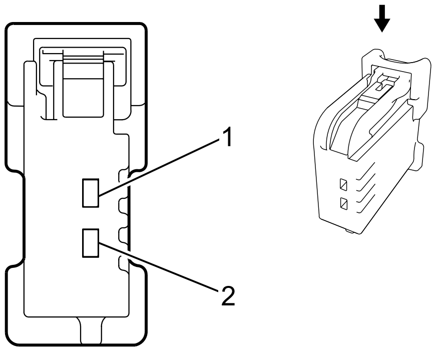
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327201	J-35616-2A (GY)	J-38125-553	8240-0128	22	C	A
II	13575790	J-35616-2A (GY)	J-38125-553	15496302	5	2	A

P19W Speaker - Right Instrument Panel (except UQG)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	VT/BN	1952	Right Front Tweeter Speaker (-)	I	-
2	0.75	BN/L-GN	1852	Right Front Tweeter Speaker (+)	I	-

P19W Speaker - Right Instrument Panel (UQG)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13595207

Service Connector: 13584097

Description: 2-Way F 0.64, 1.5 Series (BK)

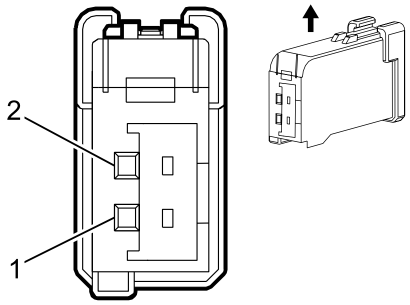
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575790	J-35616-2A (GY)	J-38125-553	8240-0127	22	E	C
II	13575790	J-35616-2A (GY)	J-38125-553	15496302	5	E	A

P19W Speaker - Right Instrument Panel (UQG)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/BK	117	Right Front Speaker Signal (-) (1)	I	-
2	0.5	YE	200	Right Front Speaker (+) (1)	I	-

P19Z Speaker - Right Rear Tweeter



Connector Part Information

Harness Type: Right Rear Door Trim

OEM Connector: 13595633

Service Connector: 13314093

Description: 2-Way F 0.64 Kaizen Series (BK)

Harness Type: Right Rear Door

OEM Connector: 13595633

Service Connector: 13314093

Description: 2-Way F 0.64 Kaizen Series (BK)

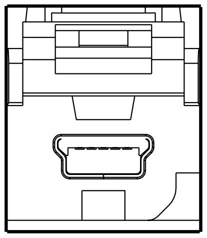
Terminal Part Information

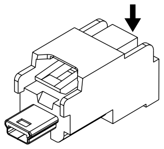
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579945	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

P19Z Speaker - Right Rear Tweeter

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	D-BU/BK	115	Right Rear Speaker Signal (-)	I	-
2	0.75	WH	46	Right Rear Speaker (+)	I	-

P22A Video Display - 2nd Row X1 (U42)





Connector Part Information

Harness Type: Headliner LVDS

OEM Connector: 13871468

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 5-Way M 2.0 Mini B USB Type (BK)

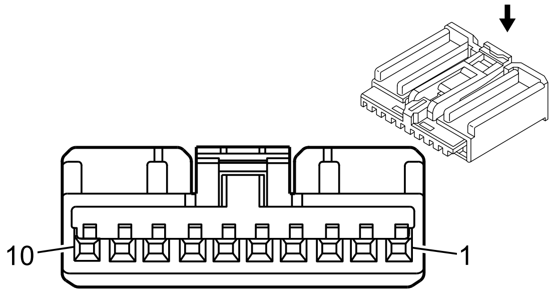
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

P22A Video Display - 2nd Row X1 (U42)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	LVDS	—	Video Display Signal	I	—

P22A Video Display - 2nd Row X2 (U42)



Connector Part Information

Harness Type: Overhead Console

OEM Connector: 13574592

Service Connector: 13576634

Description: 10-Way F 0.64 Kaizen Series (BK)

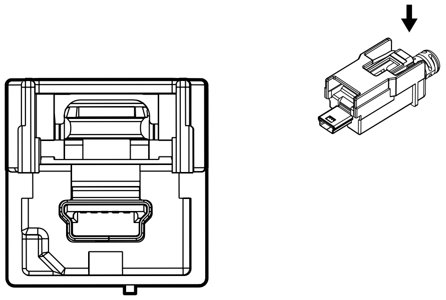
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

P22A Video Display - 2nd Row X2 (U42)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	VT/L-GN	7558	LED Ambient Lighting Control 2	I	-
2	0.5	BK	1050	Ground	I	-
3	0.5	GY	157	Interior Lamp Control	I	-
4	0.5	YE	6817	LED Backlight Dimming Control	I	-
5	0.5	WH/BN	6815	Inadvertent Power Control	I	-
6-7	-	-	-	Not Occupied	-	-
8	0.5	BK	2550	Ground	I	-
9	0.35	L-GN/YE	7066	Entertainment Remote Enable Signal	I	-
10	0.5	RD/L-GN	1540	Battery Positive Voltage	I	-

P22B Video Display - 3rd Row X1 (DNU)



Connector Part Information

Harness Type: Headliner LVDS

OEM Connector: 13871470

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 5-Way M 2.0 Mini B USB Type (GY)

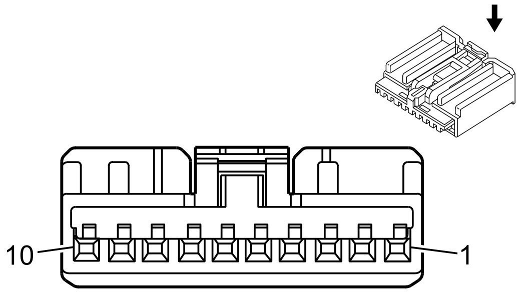
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

P22B Video Display - 3rd Row X1 (DNU)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	LVDS	—	Video Display Signal	I	—

P22B Video Display - 3rd Row X2 (DNU)



Connector Part Information

Harness Type: Overhead Console

OEM Connector: 13631701

Service Connector: Pending

Description: 10-Way F 0.64 Kaizen Series (GY)

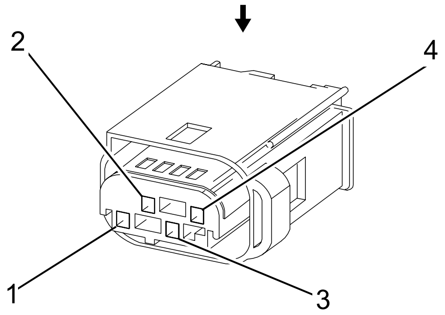
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

P22B Video Display - 3rd Row X2 (DNU)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	VT/L-GN	7558	LED Ambient Lighting Control 2	I	-
2	0.5	BK	1050	Ground	I	-
3	0.5	GY	157	Interior Lamp Control	I	-
4	0.5	YE	6817	LED Backlight Dimming Control	I	-
5	0.5	WH/BN	6815	Inadvertent Power Control	I	-
6-7	-	-	-	Not Occupied	-	-
8	0.5	BK	2550	Ground	I	-
9	0.5	L-GN/YE	7066	Entertainment Remote Enable Signal	I	-
10	0.5	RD/L-GN	1540	Battery Positive Voltage	I	-

P25 Power Sounder Content Theft Deterrent Alarm Module (UTT)



Connector Part Information

Harness Type: Body

OEM Connector: 13679454

Service Connector: 19301725

Description: 4-Way F 0.64 Micro Quadlok Series, Sealed (BK)

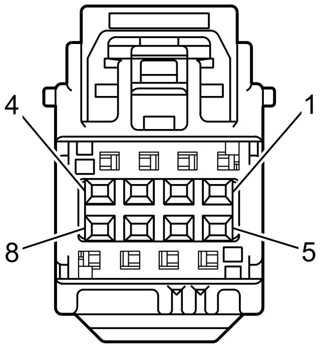
Terminal Part Information

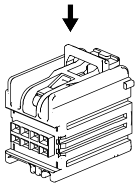
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575859	J-35616-64B (L-BU)	J-38125-11A	962885-5	15	6	6

P25 Power Sounder Content Theft Deterrent Alarm Module (UTT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.5	RD/D-BU	4540	Battery Positive Voltage	I	-
3	0.5	L-GN/D-BU	6133	Linear Interconnect Network Bus 2	I	-
4	0.5	BK	1150	Ground	I	-

P29 Heads-Up Display X1 (UV6)





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13518475

Service Connector: 13576542

Description: 8-Way F YESC Kaizen Series (BK)

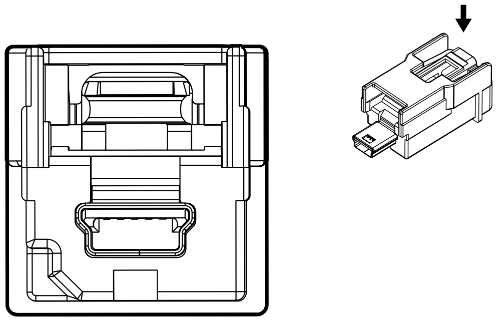
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
II	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

P29 Heads-Up Display X1 (UV6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN/BK	3894	Linear Interconnect Network Bus 12	I	-
2	-	-	-	Not Occupied	-	-
3	0.35	YE/WH	622	Head Up Display Switch Signal	II	-
4	0.35	BK/WH	1851	Signal Ground	II	-
5	-	-	-	Not Occupied	-	-
6	0.5	RD/GY	2840	Battery Positive Voltage	II	-
7	-	-	-	Not Occupied	-	-
8	0.35	BK/L-GN	5699	Head Up Display Switch Low Reference	II	-

P29 Heads Up Display X2 (UV6)



Connector Part Information

Harness Type: Instrument Panel LVDS

OEM Connector: 13584751

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 5-Way M USB Type (BK)

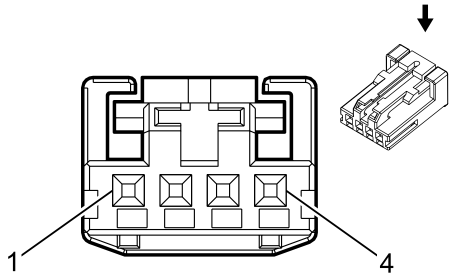
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

P29 Heads Up Display X2 (UV6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	LVDS	—	Head-up Display Signal	I	—

P43 Collision Alert Indicators (UEU or UFL without UV6)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13853727

Service Connector: 19300597

Description: 4-Way F 0.64 Micro Quadlock Series (BK)

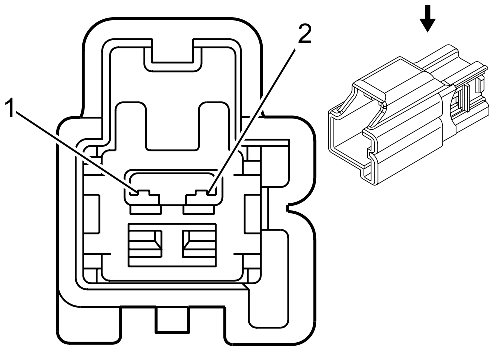
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575521	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	J	J
II	13575521	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	H	H
III	13575783	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	H	H

P43 Collision Alert Indicators (UEU or UFL without UV6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BK	1639	Run/Crank Ignition 1 Voltage	I	-
2	0.35	GY/YE	3885	Forward Collision Alert LED Control	II	-
3	0.35	WH/L-GN	3535	Reflected LED Display Dimming Control	III	-
4	0.35	BK/WH	1851	Signal Ground	II	-

P45LR Seat Haptic Movement Motor - Driver Left Rear (UEU, UFL or UGN)



Connector Part Information

Harness Type: Driver Seat Cushion

OEM Connector: 13580902

Service Connector: 88988503

Description: 2-Way M 1.5 Series (L-GY)

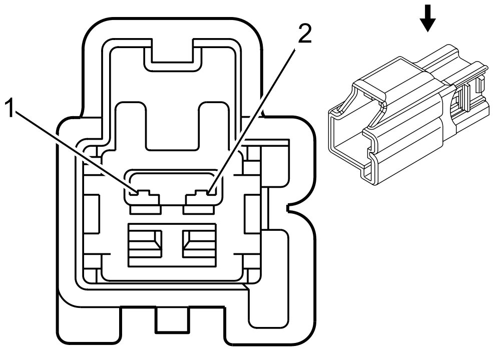
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

P45LR Seat Haptic Movement Motor - Driver Left Rear (UEU, UFL or UGN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5 0.5	YE/BN YE/YE	3037 3037	Left Rear Haptic Seat Motor Control Left Rear Haptic Seat Motor Control	I	-
2	0.5 0.5	BK BK/BK	1150 1150	Ground Ground	I	-

P45RR Seat Haptic Movement Motor - Driver Right Rear (UEU, UFL or UGN)



Connector Part Information

Harness Type: Driver Seat Cushion

OEM Connector: 13580902

Service Connector: 88988503

Description: 2-Way M 1.5 Series (L-GY)

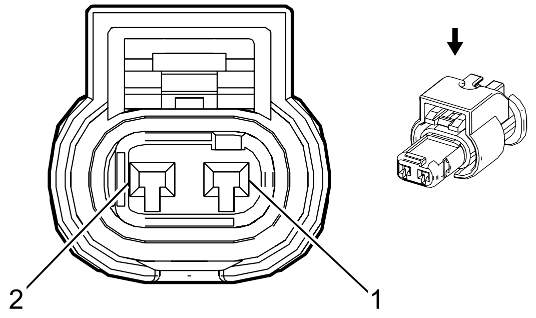
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

P45RR Seat Haptic Movement Motor - Driver Right Rear (UEU, UFL or UGN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5 0.5	BN BN/BN	3038 3038	Right Rear Haptic Seat Motor Control Right Rear Haptic Seat Motor Control	I	-
2	0.5 0.5	BK BK/BK	1150 1150	Ground Ground	I	-

Q2 A/C Compressor Clutch



Connector Part Information

Harness Type: Engine

OEM Connector: 13927761

Service Connector: 19300402

Description: 2-Way F 1.2 MCP Series, Sealed (BK with BK Inner Connector)

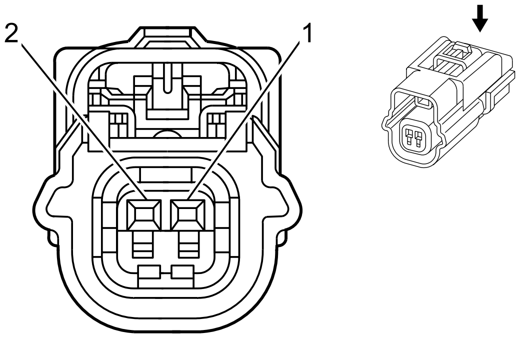
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available
II	Pending	J-35616-16 (L-GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

Q2 A/C Compressor Clutch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	550	Ground	I	-
2	0.75	BN/L-GN	59	A/C Compressor Clutch Supply Voltage	II	-

Q6 Camshaft Position Actuator Solenoid Valve



Connector Part Information

Harness Type: Camshaft Jumper

OEM Connector: 54390239

Service Connector: 13585856

Description: 2-Way F Kaizen 64 Series, Sealed (BK)

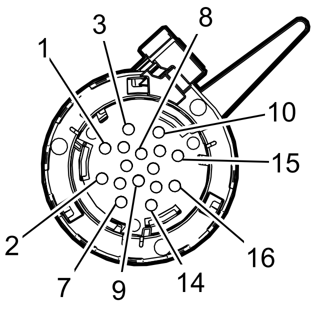
Terminal Part Information

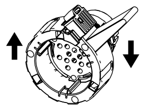
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q6 Camshaft Position Actuator Solenoid Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/BN	6753	Cam Phaser W Return Low Reference	I	-
2	0.5	VT/BN	5284	Camshaft Phaser Intake Solenoid (1)	I	-

Q8 Control Solenoid Valve Assembly X1 (MYC)





Connector Part Information

Harness Type: Engine

OEM Connector: 13878751

Service Connector: Pending

Description: 16-Way F 1.5 Series, Sealed (BK)

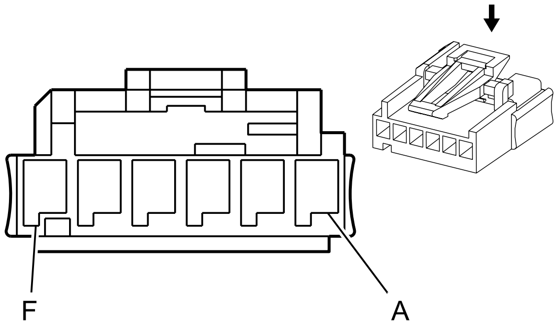
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578920	J-35616-66 (YE)	J-38125-28	2 21 24 47220 0	12	E	1

Q8 Control Solenoid Valve Assembly X1 (MYC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-2	-	-	-	Not Occupied	-	-
3	0.5	WH/GY	1786	Transmission Park/Neutral Signal (1)	I	-
4	0.75	RD/L-GN	1840	Battery Positive Voltage	I	-
5	0.75	BK/WH	451	Signal Ground	I	-
6-8	-	-	-	Not Occupied	-	-
9	0.5	VT/YE	5985	Accessory Wakeup Serial Data	I	-
10	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	I	-
11	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	I	-
12	0.5	VT/BK	2139	Run/Crank Ignition 1 Voltage	I	-
13	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	I	-
14	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	I	-
15	-	-	-	Not Occupied	-	-
16	0.5	BN/WH	6354	Output Speed High (Replicated TOS) Input Signal	I	-

Q8 Control Solenoid Valve Assembly X2 (MYC)



Connector Part Information

Harness Type: Transmission

OEM Connector: 15336500

Service Connector: 89046635

Description: 6-Way F Metri Pack 150.2 Series (GN)

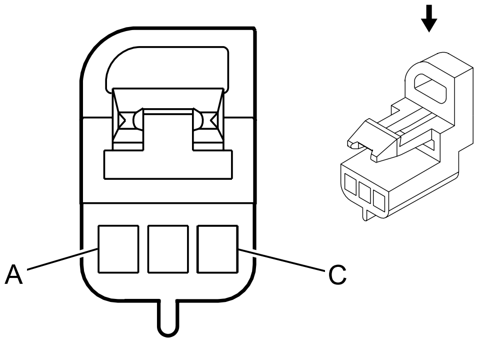
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q8 Control Solenoid Valve Assembly X2 (MYC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	GY	—	Ground	I	-
B	0.35	BK	—	Transmission Range Switch Signal P	I	-
C	0.35	YE	—	Transmission Range Switch Signal C	I	-
D	0.35	RD	—	Transmission Range Switch Signal B	I	-
E	0.35	GN	—	Transmission Range Switch Signal A	I	-
F	0.35	WH	—	Park/Neutral Switch Signal	I	-

Q8 Control Solenoid Valve Assembly X3 (MYC)



Connector Part Information

Harness Type: Transmission

OEM Connector: 13539487

Service Connector: Service by Harness – See Part Catalog

Description: 3-Way F Metri Pack 150 Series (BK)

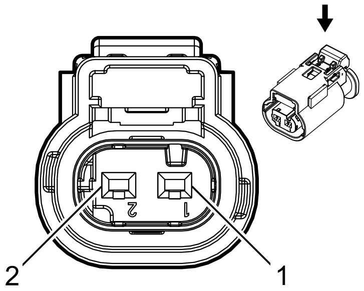
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q8 Control Solenoid Valve Assembly X3 (MYC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	GN	—	Input Speed Sensor (ISS) Signal	I	-
B	0.35	RD	—	ISS/OSS Supply Voltage	I	-
C	0.35	BK	—	Output Speed Sensor (OSS) Signal	I	-

Q12 Evaporative Emission Purge Solenoid Valve



Connector Part Information

Harness Type: Engine

OEM Connector: 13735326

Service Connector: 13587326

Description: 2-Way F 1.2 MLK Series, Sealed (BK)

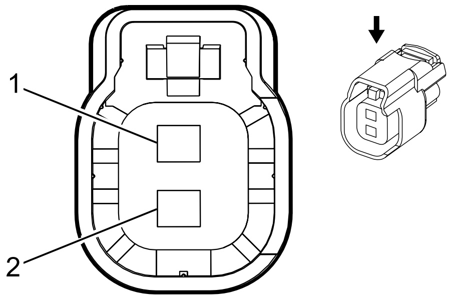
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

Q12 Evaporative Emission Purge Solenoid Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/D-BU	5293	Powertrain Main Relay Fused Supply (4)	I	-
2	0.5	L-GN/D-BU	428	EVAP Canister Purge Solenoid Control	I	-

Q13 Evaporative Emission Vent Solenoid Valve



Connector Part Information

Harness Type: Chassis

OEM Connector: 13771883

Service Connector: 13579002

Description: 2-Way F 1.5 Series, Sealed (BK)

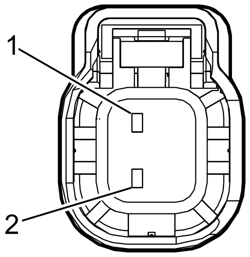
Terminal Part Information

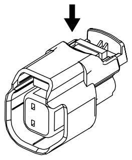
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

Q13 Evaporative Emission Vent Solenoid Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH	1310	EVAP Canister Vent Solenoid Control	I	-
2	0.5	RD/L-GN	1840	Battery Positive Voltage	I	-

Q17A Fuel Injector 1





Connector Part Information

Harness Type: Fuel Injector − Odd

OEM Connector: 34062-4008

Service Connector: Service by Harness – See Part Catalog

Description: 2-Way F 1.5 Series Sealed (BK)

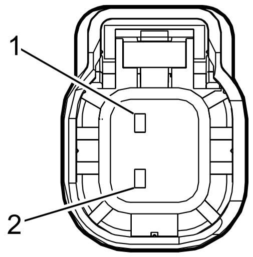
Terminal Part Information

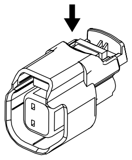
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q17A Fuel Injector 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BN/WH	4901	Ignition Voltage	I	-
2	0.75	BN	4801	Fuel Injector 1 Control	I	-

Q17B Fuel Injector 2





Connector Part Information

Harness Type: Fuel Injector − Even

OEM Connector: 34062-4008

Service Connector: Service by Harness – See Part Catalog

Description: 2-Way F 1.5 Series Sealed (BK)

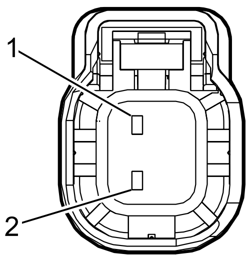
Terminal Part Information

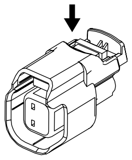
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q17B Fuel Injector 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	L-BU/GY	4902	Ignition Voltage	I	-
2	0.75	L-BU	4802	Fuel Injector 2 Control	I	-

Q17C Fuel Injector 3





Connector Part Information

Harness Type: Fuel Injector - Odd

OEM Connector: 34062-4008

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 1.5 Series Sealed (BK)

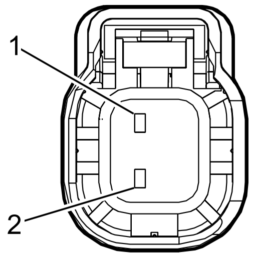
Terminal Part Information

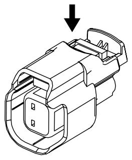
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q17C Fuel Injector 3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	L-GN/GY	4903	Ignition Voltage	I	-
2	0.75	L-GN	4803	Fuel Injector 3 Control	I	-

Q17D Fuel Injector 4





Connector Part Information

Harness Type: Fuel Injector − Even

OEM Connector: 34062-4008

Service Connector: Service by Harness – See Part Catalog

Description: 2-Way F 1.5 Series Sealed (BK)

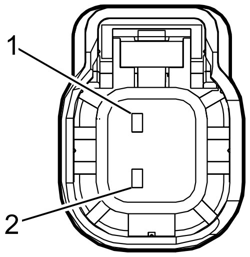
Terminal Part Information

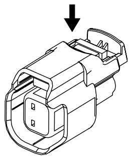
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q17D Fuel Injector 4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	L-BU/WH	4904	Ignition Voltage	I	-
2	0.75	GY/L-BU	4804	Fuel Injector 4 Control	I	-

Q17E Fuel Injector 5





Connector Part Information

Harness Type: Fuel Injector − Odd

OEM Connector: 34062-4008

Service Connector: Service by Harness – See Part Catalog

Description: 2-Way F 1.5 Series Sealed (BK)

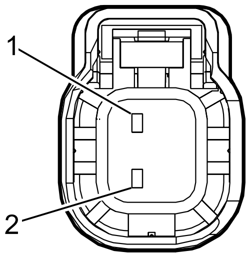
Terminal Part Information

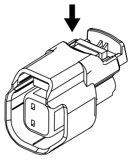
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q17E Fuel Injector 5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	L-GN/WH	4905	Ignition Voltage	I	-
2	0.75	WH/L-GN	4805	Fuel Injector 5 Control	I	-

Q17F Fuel Injector 6





Connector Part Information

Harness Type: Fuel Injector − Even

OEM Connector: 34062-4008

Service Connector: Service by Harness – See Part Catalog

Description: 2-Way F 1.5 Series Sealed (BK)

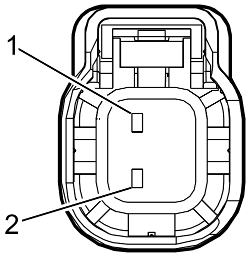
Terminal Part Information

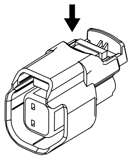
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q17F Fuel Injector 6

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	VT/GY	4906	Ignition Voltage	I	-
2	0.75	VT/L-GN	4806	Fuel Injector 6 Control	I	-

Q17G Fuel Injector 7





Connector Part Information

Harness Type: Fuel Injector − Odd

OEM Connector: 34062-4008

Service Connector: Service by Harness – See Part Catalog

Description: 2-Way F 1.5 Series Sealed (BK)

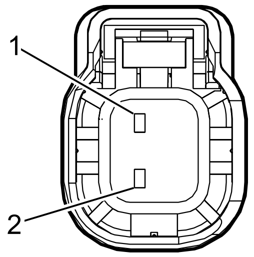
Terminal Part Information

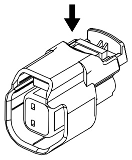
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q17G Fuel Injector 7

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	WT/YE	4907	Ignition Voltage	I	-
2	0.75	YE/GY	4807	Fuel Injector 7 Control	I	-

Q17H Fuel Injector 8





Connector Part Information

Harness Type: Fuel Injector − Even

OEM Connector: 34062-4008

Service Connector: Service by Harness – See Part Catalog

Description: 2-Way F 1.5 Series Sealed (BK)

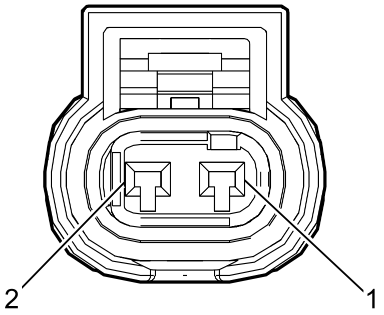
Terminal Part Information

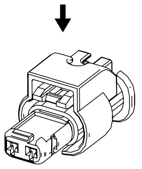
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q17H Fuel Injector 8

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	GY/WH	4908	Ignition Voltage	I	-
2	0.75	GY	4808	Fuel Injector 8 Control	I	-

Q37LF Shock Absorber Actuator - Left Front (Z95)





Connector Part Information

Harness Type: Chassis

OEM Connector: 13927761

Service Connector: 19300402

Description: 2-Way F 1.2 MCP Series, Sealed (BK with BK Inner Connector)

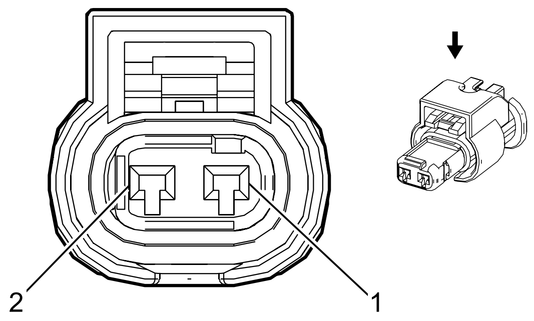
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13587558	J-35616-64B (L-BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

Q37LF Shock Absorber Actuator - Left Front (Z95)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	WH/GY	1448	Left Front Strut Motor Increase Damping	I	-
2	0.75	WH/L-GN	1005	Left Front Strut Motor Decrease Damping Control	I	-

Q37LR Shock Absorber Actuator - Left Rear (Z95)



Connector Part Information

Harness Type: Chassis

OEM Connector: 13927761

Service Connector: 19300402

Description: 2-Way F 1.2 MCP Series, Sealed (BK with BK Inner Connector)

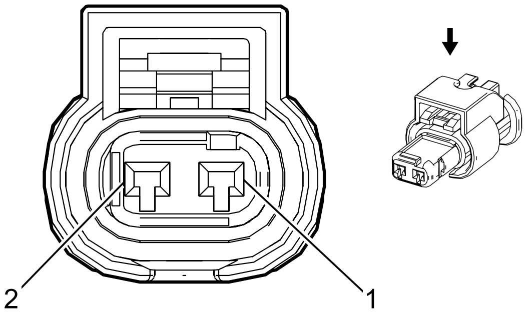
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13587558	J-35616-64B (L-BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

Q37LR Shock Absorber Actuator - Left Rear (Z95)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BN/VT	1010	Left Rear Strut Motor Increase Damping Control	I	-
2	0.75	WH/BK	1013	Left Rear Strut Motor Decrease Damping Control	I	-

Q37RF Shock Absorber Actuator - Right Front (Z95)



Connector Part Information

Harness Type: Chassis

OEM Connector: 13927761

Service Connector: 19300402

Description: 2-Way F 1.2 MCP Series, Sealed (BK with BK Inner Connector)

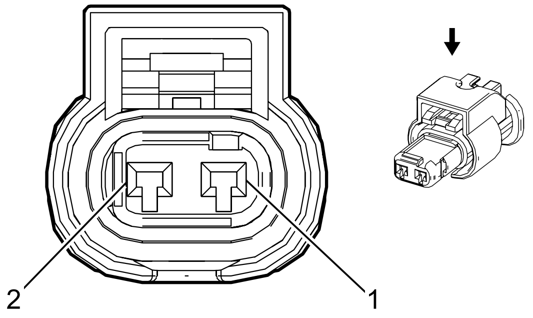
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13587558	J-35616-64B (L-BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

Q37RF Shock Absorber Actuator - Right Front (Z95)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	WH/BK	1006	Right Front Strut Motor Increase Damping Control	I	-
2	0.75	BN	1009	Right Front Strut Motor Decrease Damping Control	I	-

Q37RR Shock Absorber Actuator - Right Rear (Z95)



Connector Part Information

Harness Type: Chassis

OEM Connector: 13927761

Service Connector: 19300402

Description: 2-Way F 1.2 MCP Series, Sealed (BK with BK Inner Connector)

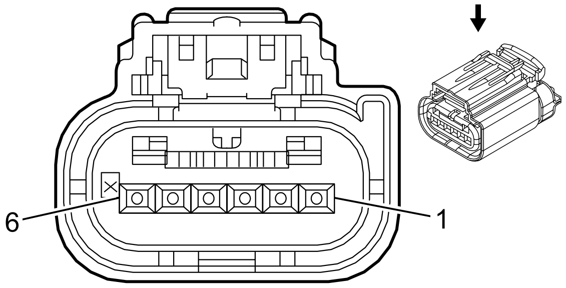
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13587558	J-35616-64B (L-BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

Q37RR Shock Absorber Actuator - Right Rear (Z95)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	YE	1014	Right Rear Strut Motor Increase Damping	I	-
2	0.75	VT	1017	Right Rear Strut Motor Decrease Damping	I	-

Q38 Throttle Body



Connector Part Information

Harness Type: Engine

OEM Connector: 13699991

Service Connector: 13581267

Description: 6-Way F 0.64 GET Series, Sealed (BK)

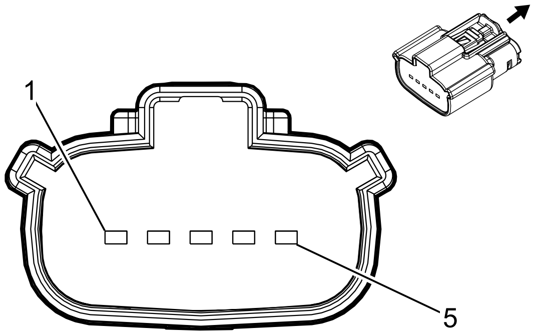
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-64B (L-BU)	J-38125-553	Not Available	Not Available	Not Available	Not Available

Q38 Throttle Body

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE	581	Throttle Actuator Control Open	I	-
2	0.5	BN/WH	582	Throttle Actuator Control Close	I	-
3	0.5	D-BU/WH	3630	Throttle Position Sensor (SENT1) Signal	I	-
4	0.5	BK/BN	2752	Throttle Position Sensor Low Reference	I	-
5	0.5	BN/RD	2701	Throttle Position Sensor 5 Volt Reference	I	-
6	-	-	-	Not Occupied	-	-

Q43 Valve Lifter Oil Manifold Assembly



Connector Part Information

Harness Type: Engine

OEM Connector: 13845946

Service Connector: 19301719

Description: 5-Way F 150 MX Series, Sealed (BK)

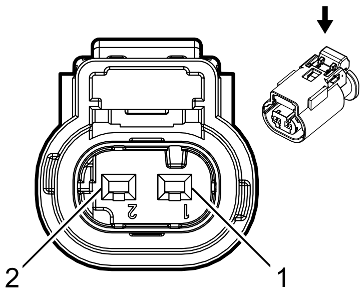
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

Q43 Valve Lifter Oil Manifold Assembly

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/D-BU	5494	Cylinder Shutoff Solenoid Control (4)	I	-
2	0.5	GY	5493	Cylinder Shutoff Solenoid Control (3)	I	-
3	0.5	D-BU	5491	Cylinder Shutoff Solenoid Control (1)	I	-
4	0.75	VT/D-BU	5293	Powertrain Main Relay Fused Supply (4)	I	-
5	0.5	L-GN	5492	Cylinder Shutoff Solenoid Control (2)	I	-

Q44 Engine Oil Pressure Control Solenoid Valve



Connector Part Information

Harness Type: Camshaft Jumper

OEM Connector: 13503566

Service Connector: 13587326

Description: 2-Way F 1.2 MLK Series, Sealed (BK)

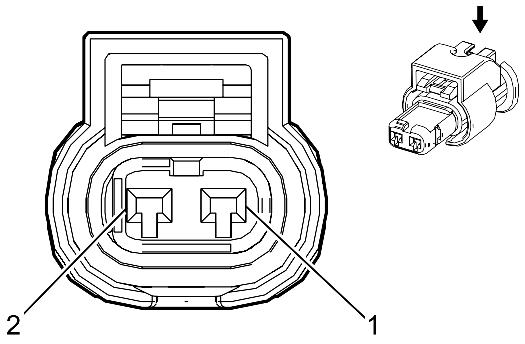
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q44 Engine Oil Pressure Control Solenoid Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/L-BU	5293	Powertrain Main Relay Fused Supply (4)	I	-
2	0.5	L-BU	179	Oil Pump Command Signal	I	-

Q46 A/C Compressor Solenoid Valve



Connector Part Information

Harness Type: Engine

OEM Connector: 13927762

Service Connector: 19299928

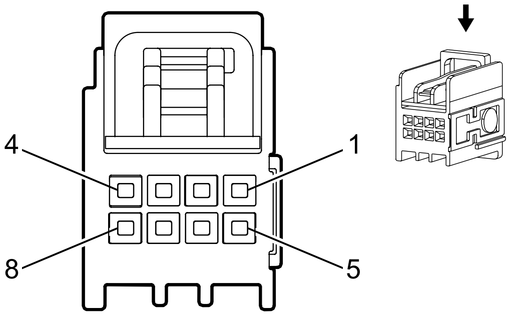
Description: 2-Way F 1.2 MCP Series, Sealed (BK with NA Inner Connector)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-16 (L-GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

Q46 A/C Compressor Solenoid Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	D-BU/YE	7574	Electric Variable Displacement Control	I	-
2	0.75	D-BU/BN	7573	Electric Variable Displacement Supply	I	-



Connector Part Information

Harness Type: Driver Seat Cushion

OEM Connector: 13235933

Service Connector: 13576543

Description: 8-Way F 0.64 Series (BK with BK cover)

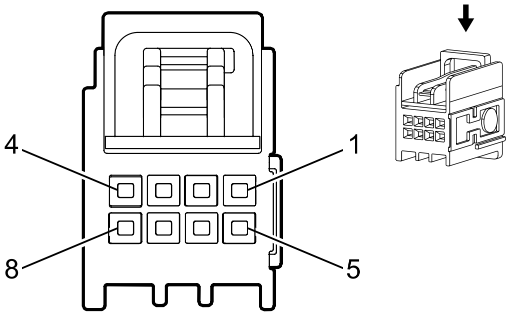
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q54D Seat Massage Valve Assembly - Driver (ULT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/BR	2240	Battery Positive Voltage	I	-
2	0.35	L-GN/GY	3758	Linear Interconnect Network Bus 13	I	-
3	-	-	-	Not Occupied	-	-
4	0.5	BK	1150	Ground	I	-
5-6	-	-	-	Not Occupied	-	-
7	0.5	VT	901	Bolster Pump Control	I	-
8	0.5	L-GN	903	Bolster Pump Control	I	-

Q54P Seat Massage Valve Assembly - Passenger (ULT)



Connector Part Information

Harness Type: Passenger Seat

OEM Connector: 13235933

Service Connector: 13576543

Description: 8-Way F 0.64 Series (BK with BK cover)

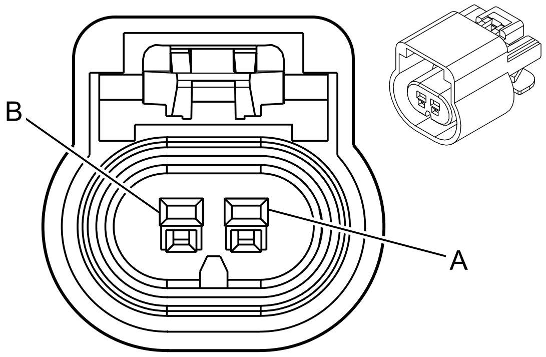
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q54P Seat Massage Valve Assembly - Passenger (ULT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/WH	2240	Battery Positive Voltage	I	-
2	0.35	L-GN/GY	3758	Linear Interconnect Network Bus 13	I	-
3	-	-	-	Not Occupied	-	-
4	0.5	BK	1250	Ground	I	
5-6	-	-	-	Not Occupied	-	-
7	0.5	VT	901	Bolster Pump Control	I	-
8	0.5	L-GN	903	Bolster Pump Control	I	-

R6A Terminating Resistor - High Speed Bus (without J71, JL1, Z85 or Z95)



Connector Part Information

Harness Type: Chassis

OEM Connector: 13510085

Service Connector: 13580114

Description: 2-Way F 150 GT Series, Sealed (BK)

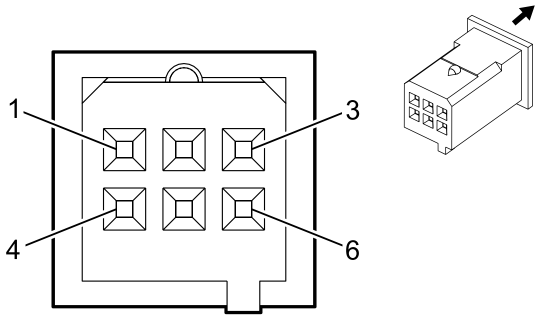
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578912	J-35616-2A (GY)	J-38125-553	12191819	8	E	1

R6A Terminating Resistor - High Speed Bus (without J71, JL1, Z85 or Z95)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	I	-
B	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	I	-

S3 Transmission Shift Lever



Connector Part Information

Harness Type: Steering Column

OEM Connector: HCMDWSB-04-K

Service Connector: Service by Harness — See Part Catalog

Description: 4-Way M, HCM Series (BK)

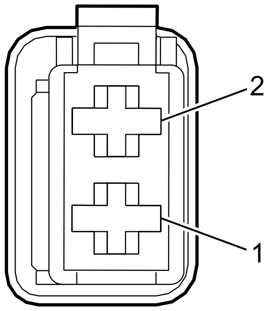
Terminal Part Information

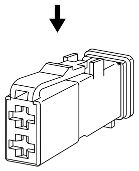
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S3 Transmission Shift Lever

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BU/GY	553	Shift Select Switch Performance Signal	I	-
2	0.5	BK/WH	1851	Ground	I	-
3	0.5	VT/YE	5526	Tap Up/Tap Down Switch Signal	I	-
4	0.5	BK/WH	1851	Ground	I	-

S5 Center Console Compartment Lamp Switch





Connector Part Information

Harness Type: Floor Console

OEM Connector: 10787635

Service Connector: 19167758

Description: 2-Way F 1.2 Timer Series (NA)

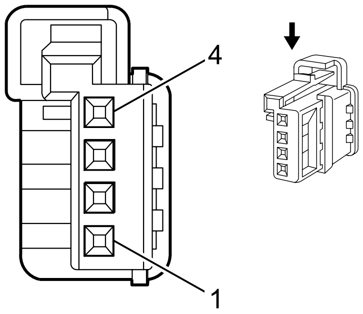
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327144	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1

S5 Center Console Compartment Lamp Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/BN	6815	Inadvertent Power Control	I	-
2	0.5	WH/BN	6815	Inadvertent Power Control	I	-

S12 Dome Lamp Switch



Connector Part Information

Harness Type: Overhead Console

OEM Connector: 13862319

Service Connector: 13587956

Description: 4-Way F 0.64 Micro Quadlok Series (BN)

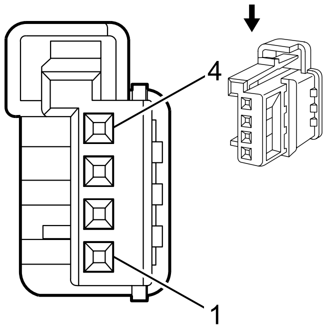
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575521	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	J	J
II	13575521	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	H	H

S12 Dome Lamp Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK	1050	Ground	I	-
2	0.35	GY/L-GN	328	Interior Lamp Defeat Switch Signal	II	-
3	0.35	GY	156	Courtesy Lamp Switch Signal	II	-
4	0.35	YE	6817	LED Backlight Dimming Control	II	-

S13D Door Lock Switch - Driver (X88 or Z88)



Connector Part Information

Harness Type: Driver Door Trim

OEM Connector: 13597457

Service Connector: 13576536

Description: 4-Way F 0.64 Micro Quadlock Series (WH)

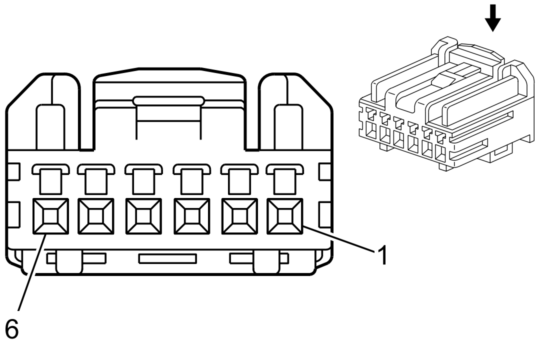
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327114	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	H	H

S13D Door Lock Switch - Driver (X88 or Z88)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE	6817	LED Backlight Dimming Control	I	-
2	0.35	BN/YE	780	Driver Door Lock Switch Lock Signal	I	-
3	0.35	BN/WH	781	Driver Door Lock Switch Unlock Signal	I	-
4	0.35	BK	1150	Ground	I	-

S13D Door Lock Switch - Driver (Z75)



Connector Part Information

Harness Type: Driver Door

OEM Connector: 15484551

Service Connector: 19153174

Description: 6-Way F 0.64 HCM Series (BK)

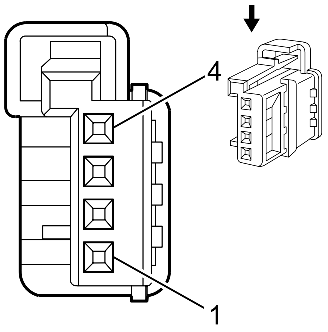
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575868	J-35616-64B (L-BU)	J-38125-12A	SHCM-A03T-P025	20	J	J

S13D Door Lock Switch - Driver (Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE	6817	LED Backlight Dimming Control	I	-
2	0.35	BN/YE	780	Driver Door Lock Switch Lock Signal	I	-
3	0.35	BN/WH	781	Driver Door Lock Switch Unlock Signal	I	-
4	0.35	BK	1150	Ground	I	-
5	0.35	WH	6816	Indicator Dimming Control	I	-
6	0.35	WH/VT	3270	Driver Door Lock Motor Status	I	-

S13P Door Lock Switch - Passenger (X88 or Z88)



Connector Part Information

Harness Type: Passenger Door Trim

OEM Connector: 13597457

Service Connector: 13576536

Description: 4-Way F 0.64 Micro Quadlock Series (WH)

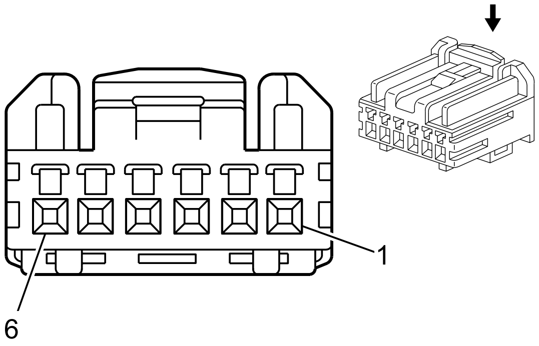
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327114	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	H	H

S13P Door Lock Switch - Passenger (X88 or Z88)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE	6817	LED Backlight Dimming Control	I	-
2	0.35	YE/VT	244	Passenger Door Lock Switch Lock Control	I	-
3	0.35	BN/VT	245	Passenger Door Lock Switch Unlock Control	I	-
4	0.35	BK	1250	Ground	I	-

S13P Door Lock Switch - Passenger (Z75)



Connector Part Information

Harness Type: Passenger Door

OEM Connector: 15484551

Service Connector: 19153174

Description: 6-Way F 0.64 HCM Series (BK)

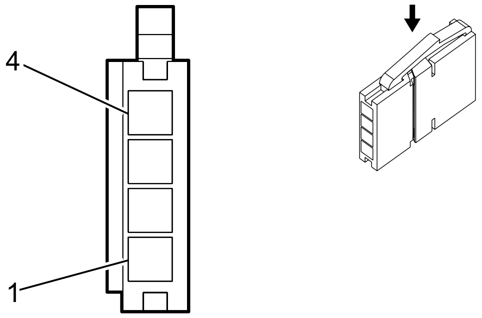
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575868	J-35616-64B (L-BU)	J-38125-12A	SHCM-A03T-P025	20	J	J

S13P Door Lock Switch - Passenger (Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE	6817	LED Backlight Dimming Control	I	-
2	0.35	YE/VT	244	Passenger Door Lock Switch Lock Control	I	-
3	0.35	BN/VT	245	Passenger Door Lock Switch Unlock Control	I	-
4	0.35	BK	1250	Ground	I	-
5	0.35	WH	6816	Indicator Dimming Control	I	-
6	0.35	VT	4009	Co-Driver Door Lock Status	I	-

S25 Garage Door Opener (UG1)



Connector Part Information

Harness Type: Overhead Console

OEM Connector: 13879342

Service Connector: No SDC/FSU

Description: 4-Way F 0.50 OCS Series (BK)

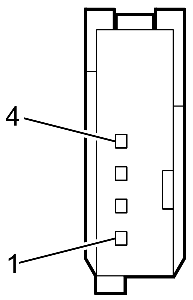
Terminal Part Information

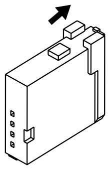
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

S25 Garage Door Opener (UG1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	RD/YE	240	Battery Positive Voltage	I	-
2	0.35	YE	6817	LED Backlight Dimming Control	I	-
3	-	-	-	Not Occupied	-	-
4	0.35	BK	1050	Ground	I	-

S27 Head-Up Display Switch (UV6)





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13820711

Service Connector: No SDC/FSU

Description: 4-Way F 0.64 Series (BK)

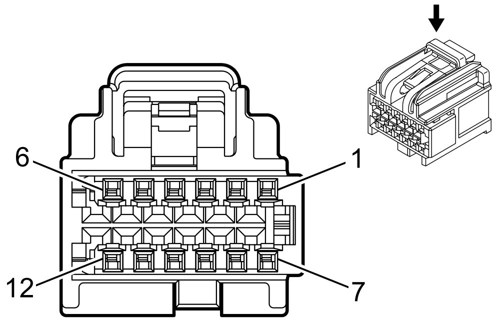
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

S27 Head-Up Display Switch (UV6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE	6817	LED Backlight Dimming Control	I	-
2	0.35	BK/WH	1851	Signal Ground	I	-
3	0.35	BK/L-GN	5699	Head Up Display Switch Low Reference	I	-
4	0.35	YE/WH	622	Head Up Display Switch Signal	I	-

S30 Headlamp Switch



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13782625

Service Connector: 19301730

Description: 12-Way F 0.64 Series (BK)

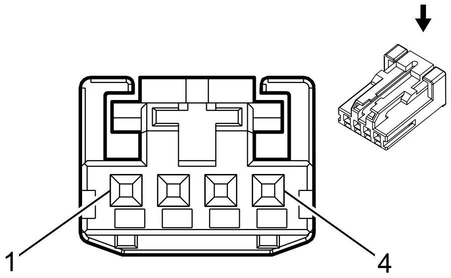
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13587581	Pending	Pending	Not Available	Not Available	Not Available	Not Available
II	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

S30 Headlamp Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/VT	103	Headlamp Switch On Signal	I	-
2	0.5	YE	6817	LED Backlight Dimming Control	I	-
3	0.35	L-GN/BN	306	Headlamp Switch Headlamps Off Signal Control	I	-
4	-	-	-	Not Occupied	-	-
5	0.35	L-GN/GY	13	Headlamp Switch Park Lamp Signal	I	-
6	-	-	-	Not Occupied	-	-
7	0.35	BK/YE	5005	Instrument Panel Lamp Dimmer Switch Low Reference	I	-
8	0.75	BK	1850	Ground	II	-
9	-	-	-	Not Occupied	-	-
10	0.35	D-BU/GY	192	Front Fog Lamp Switch Signal	I	-
11	0.35	YE/GY	44	Instrument Panel Lamp Dimmer Switch Signal	I	-
12	0.35	D-BU/RD	1688	5 Volt Reference	I	-

S31D Seat Heating and Cooling Switch - Driver (KA1 or KB6)



Connector Part Information

Harness Type: Floor Console

OEM Connector: 13853727

Service Connector: 19300597

Description: 4-Way F 0.64 Micro Quadlock Series (BK)

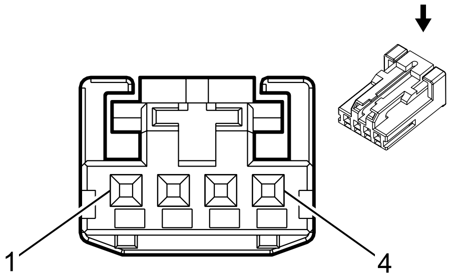
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575521	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	H	H

S31D Seat Heating and Cooling Switch - Driver (KA1 or KB6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	RD/GY	2840	Battery Positive Voltage	I	-
2	0.35	L-GN/WH	7527	Linear Interconnect Network Bus 5	I	-
3	-	-	-	Not Occupied	-	-
4	0.35	BK	1850	Ground	I	-

S31P Seat Heating and Cooling Switch - Passenger (KA1 or KB6)



Connector Part Information

Harness Type: Floor Console

OEM Connector: 13853727

Service Connector: 19300597

Description: 4-Way F 0.64 Micro Quadlock Series (BK)

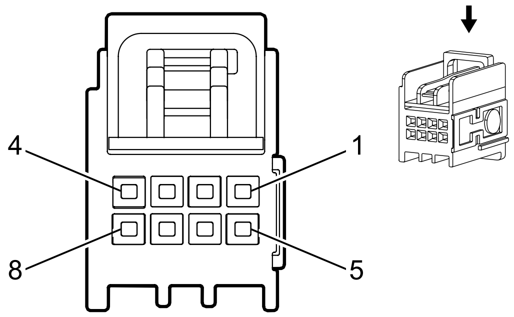
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575521	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	H	H

S31P Seat Heating and Cooling Switch - Passenger (KA1 or KB6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	1850	Ground	I	-
2	-	-	-	Not Occupied	-	-
3	0.35	L-GN/WH	7527	Linear Interconnect Network Bus 5	I	-
4	0.35	RD/GY	2840	Battery Positive Voltage	I	-

S38 Ignition Mode Switch (BTM)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 10890122

Service Connector: 13576543

Description: 8-Way F 0.64 Series (BK)

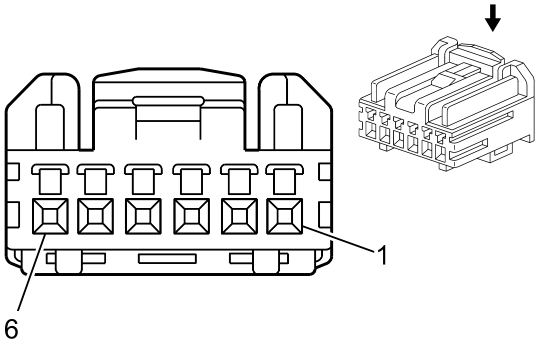
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575783	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	H	H

S38 Ignition Mode Switch (BTM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.35	BN/BK	5720	Ignition Mode Switch Accessory LED Signal	I	-
3	0.35	L-GN/BK	3558	Passive Start Switch Signal 2	I	-
4	0.35	BK/WH	1851	Signal Ground	I	-
5	0.35	D-BU/BK	5719	Ignition Mode Switch Start LED Signal	I	-
6	0.35	D-BU/L-GN	5723	Ignition Mode Switch Mode Voltage	I	-
7	0.35	BK/GY	3559	Passive Start Switch 2 Low Reference	I	-
8	0.35	YE	6817	LED Backlight Dimming Control	I	-

S39 Ignition Switch (without BTM)



Connector Part Information

Harness Type: Steering Column

OEM Connector: HCMPB-C06-K

Service Connector: 19153174

Description: 6-Way F 0.64 HCM Series (BK)

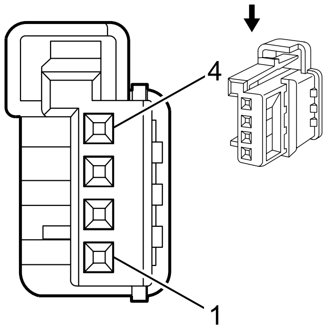
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S39 Ignition Switch (without BTM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.5	VT/BK	3	Run/Crank Ignition 1 Voltage	I	-
3	0.5	VT/YE	4	Accessory Voltage	I	-
4	0.5	RD/D-BU	540	Battery Positive Voltage	I	-
5	0.5	WH/VT	1020	Off/Run/Crank Voltage	I	-
6	0.5	WH/BK	1073	Ignition Key Resistor Signal	I	-

S43 Theft Deterrent Sensor Disable Switch (UTT)



Connector Part Information

Harness Type: Overhead Console

OEM Connector: 10866875

Service Connector: 13316147

Description: 4-Way F 0.64 Micro Quadlock Series (BU)

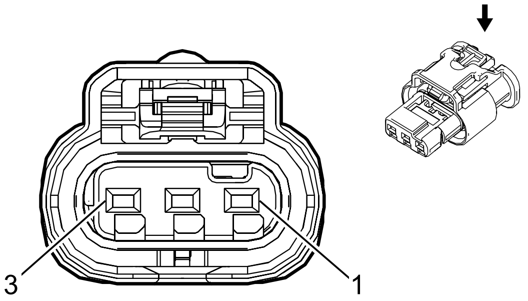
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327114	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	H	H

S43 Theft Deterrent Sensor Disable Switch (UTT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	VT/BK	5068	Intrusion Sensor Switch Disable Signal	I	-
2	0.35	BK	1050	Ground	I	-
3	0.35	YE	6817	LED Backlight Dimming Control	I	-
4	0.35	YE/D-BU	3278	Intrusion Sensor Switch LED Control	I	-

K171 Hands-Free Liftgate Sensor Control Module X1 (TC2)



Connector Part Information

Harness Type: Rear Bumper

OEM Connector: 13868589

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 1.2 MCP Series, Sealed (BN)

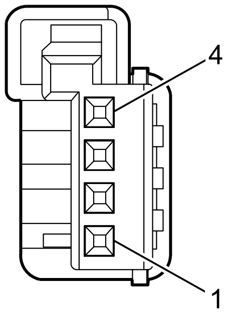
Terminal Part Information

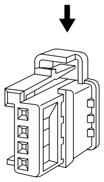
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-16 (L-GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

K171 Hands-Free Liftgate Sensor Control Module X1 (TC2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN/BN	4118	Linear Interconnect Network Bus 18	I	-
2	0.5	RD/L-GN	3140	Battery Positive Voltage	I	-
3	0.5	BK	1450	Ground	I	-

S45B Liftgate Control Switch - Interior (TB5)





Connector Part Information

Harness Type: Overhead Console

OEM Connector: 10768790

Service Connector: 13584096

Description: 4-Way F 0.64 Micro Quadlok Series (BK)

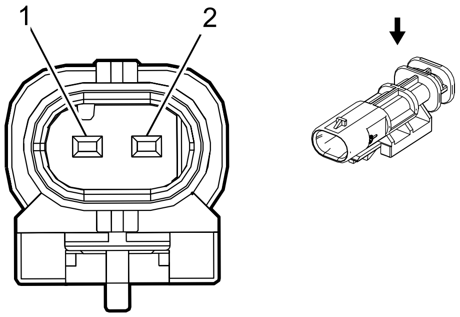
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575521	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	H	H
II	13575521	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	J	J

S45B Liftgate Control Switch - Interior (TB5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	1050	Ground	I	-
2	0.5	YE	6817	LED Backlight Dimming Control	II	-
3	0.35	L-GN	6112	Power Lift Gate On/Off Switch Signal	I	-
4	0.35	GY/BK	6113	Rear Lift Gate Open/Close Switch Signal	I	-

S46 Liftgate Handle Switch (TB5)



Connector Part Information

Harness Type: Liftgate

OEM Connector: 13788295

Service Connector: Service by Harness — See Part Catalog

Description: 2-Way M 1.2 MLK Series, Sealed (BK)

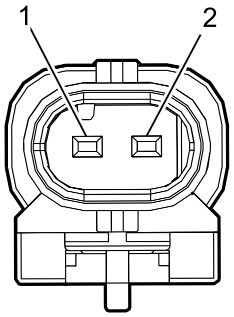
Terminal Part Information

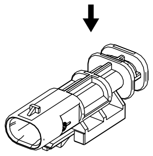
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S46 Liftgate Handle Switch (TB5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK/VT	5801	Lift Gate Object Sensor Low Reference	I	-
2	0.35	YE/D-BU	5797	Rear Closure Handle Switch Open Signal	I	-

S46B Liftgate Unlatch Switch (TB4)





Connector Part Information

Harness Type: Liftgate

OEM Connector: 13788295

Service Connector: Service by Harness — See Part Catalog

Description: 2-Way M 1.2 MLK Series, Sealed (BK)

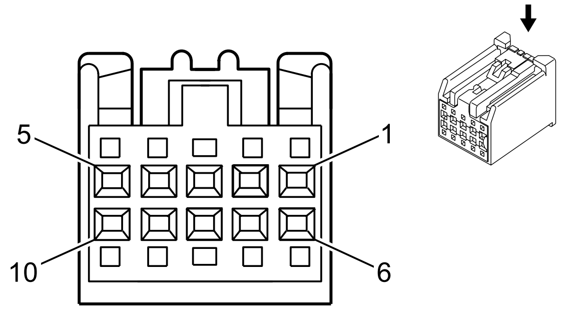
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S46B Liftgate Unlatch Switch (TB4)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE/D-BU	5797	Rear Closure Handle Switch Open Signal	I	
2	0.35	BK	1450	Ground	I	

S47D Seat Memory Switch - Driver (A45)



Connector Part Information

Harness Type: Driver Door Trim

OEM Connector: 13815336

Service Connector: 13577390

Description: 10-Way F 0.64 Kaizen Series (BK)

Harness Type: Driver Door

OEM Connector: 13815336

Service Connector: 13577390

Description: 10-Way F 0.64 Kaizen Series (BK)

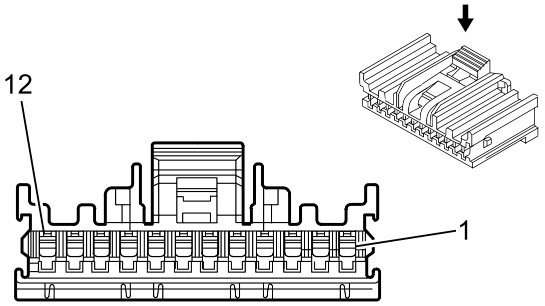
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

S47D Seat Memory Switch - Driver (A45)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK/D-BU	5978	Memory Switch Low Reference	I	-
2	0.35	YE	6817	LED Backlight Dimming Control	I	-
3-4	-	-	-	Not Occupied	-	-
5	0.35	D-BU/L-GN	614	Memory Seat Switch Set Signal	I	-
6	0.35	WH	615	Memory Seat Switch Signal (1)	I	-
7-10	-	-	-	Not Occupied	-	-

S48A Multifunction Switch - Instrument Panel (X88 or Z88)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15499371

Service Connector: 19115105

Description: 12-Way F 0.64 Kaizen Series (BK)

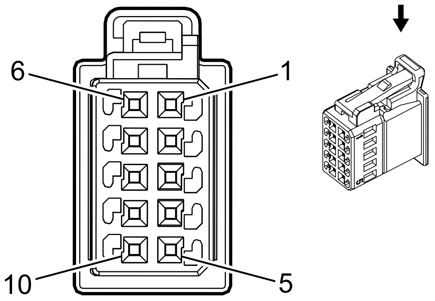
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
II	13579945	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

S48A Multifunction Switch - Instrument Panel (X88 or Z88)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.35	D-BU/VT	1788	Traction Control Switch Signal (1)	I	-
3	0.35	GY/L-GN	2555	Rear Park Assist Disable Signal	I	-
4	0.35	L-GN/BN	5852	Rear Park Assist LED Disable Signal	I	-
5	0.35	WH	6816	Indicator Dimming Control	I	-
6	0.35	WH	3152	Lane Departure Warning Indicator Control	I	-
7	0.35	YE	6817	LED Backlight Dimming Control	I	-
8	0.75	BK	1850	Ground	II	-
9	0.35	D-BU/YE	6844	ABS/TCS Hill Descent Control Switch Signal	I	-
10	0.35	GY/WH	3153	Lane Departure Warning Disable Switch Signal	I	-
11	0.35	L-GN/GY	5286	Adjustable Pedal Switch Forward Signal	I	-
12	0.35	WH/GY	5285	Adjustable Pedal Switch Rearward Signal	I	-

S48C Multifunction Switch 1 - Instrument Panel (Z75)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13650061

Service Connector: 19299776

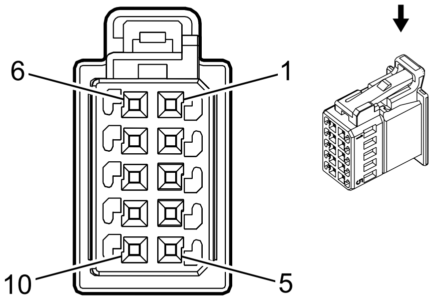
Description: 10-Way F 0.64 MQS Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575783	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	H	H
II	13575784	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	J	J
III	13575783	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	J	J

S48C Multifunction Switch 1 - Instrument Panel (Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-2	-	-	-	Not Occupied	-	-
3	0.35	WH	6816	Indicator Dimming Control	I	-
4	0.35	WH/VT	4108	Driver Mode Switch Signal	I	-
5	0.75	BK	1850	Ground	II	-
6	0.35	L-GN/GY	5286	Adjustable Pedal Switch Forward Signal	I	-
7	0.35	WH/GY	5285	Adjustable Pedal Switch Rearward Signal	I	-
8	0.5	RD/L-GN	1540	Battery Positive Voltage	III	-
9	-	-	-	Not Occupied	-	-
10	0.35	D-BU/YE	6844	ABS/TCS Hill Descent Control Switch Signal	I	-



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13650061

Service Connector: 19299776

Description: 10-Way F 0.64 MQS Series (BK)

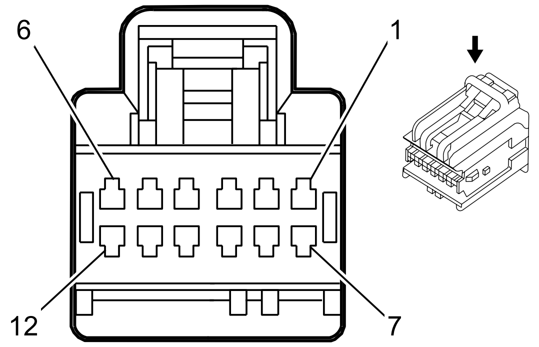
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575783	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	H	H
II	13575784	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	J	J
III	13575783	J-35616-64B (L-BU)	J-38125-12A	928999-5	15	J	J

S48D Multifunction Switch 2 - Instrument Panel (Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.35	L-GN/BN	5852	Rear Park Assist LED Disable Signal	I	-
3	0.35	WH	6816	Indicator Dimming Control	I	-
4	0.35	D-BU/VT	1788	Traction Control Switch Signal (1)	I	-
5	0.75	BK	1850	Ground	II	-
6	0.35	GY/L-GN	2555	Rear Park Assist Disable Signal	I	-
7	0.35	L-GN/WH	4047	Glove Box Door Release Signal	I	-
8	0.5	RD/L-GN	1540	Battery Positive Voltage	III	-
9	0.35	WH	3152	Lane Departure Warning Indicator Control	I	-
10	0.35	GY/WH	3153	Lane Departure Warning Disable Switch Signal	I	-

S52 Outside Rearview Mirror Switch (A45 with Z75)



Connector Part Information

Harness Type: Driver Door

OEM Connector: 13889385

Service Connector: Service by Harness - See Part Catalog

Description: 12-Way F 64 Series, Sealed (BN)

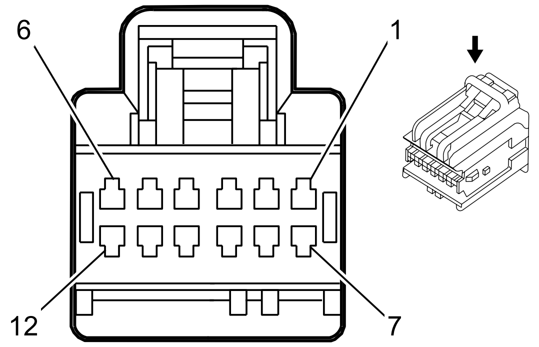
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

S52 Outside Rearview Mirror Switch (A45 with Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY/BN	3394	Driver Mirror Position Sensor Up (+) Down (-) Signal	I	-
2	0.35	VT/RD	3392	Driver Mirror Position Sensor High Reference	I	-
3	0.35	BK	1150	Ground	I	-
4	0.35	VT/D-BU	3390	Driver Mirror Motor Up (+) Down (-) Control	I	-
5	0.5	WH/L-GN	3412	Driver Mirror Motor Fold In Control	I	-
6	0.35	YE/BN	3391	Driver Mirror Motor Common Control	I	-
7	0.35	WH/YE	3395	Driver Mirror Position Sensor Left (-) Right (+) Signal	I	-
8	0.35	BK/BN	3393	Driver Mirror Position Sensor Low Reference	I	-
9	0.5	L-GN/WH	7530	Linear Interconnect Network Bus 8	I	-
10	0.35	RD/VT	1940	Battery Positive Voltage	I	-
11	0.35	BN/BK	3389	Driver Mirror Motor Right (+) Left (-) Control	I	-
12	0.5	GY/WH	3411	Driver Mirror Motor Fold Out Control	I	-

S52 Outside Rearview Mirror Switch (A45 without Z75)



Connector Part Information

Harness Type: Driver Door Trim

OEM Connector: 13889385

Service Connector: Service by Harness - See Part Catalog

Description: 12-Way F 64 Series, Sealed (BN)

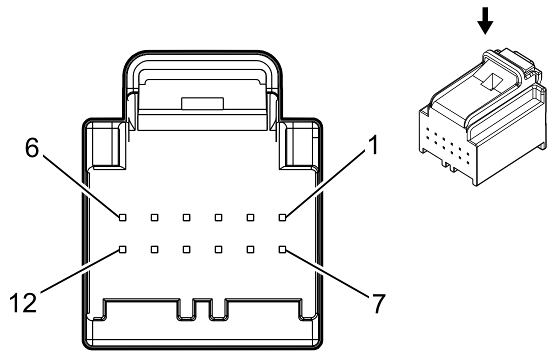
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575840	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	P	P

S52 Outside Rearview Mirror Switch (A45 without Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY/BN	3394	Driver Mirror Position Sensor Up (+) Down (-) Signal	I	-
2	0.35	VT/RD	3392	Driver Mirror Position Sensor High Reference	I	-
3	0.35	BK	1150	Ground	I	-
4	0.35	VT/D-BU	3390	Driver Mirror Motor Up (+) Down (-) Control	I	-
5	0.5	WH/L-GN	3412	Driver Mirror Motor Fold In Control	I	-
6	0.35	YE/BN	3391	Driver Mirror Motor Common Control	I	-
7	0.35	WH/YE	3395	Driver Mirror Position Sensor Left (-) Right (+) Signal	I	-
8	0.35	BK/BN	3393	Driver Mirror Position Sensor Low Reference	I	-
9	0.5	L-GN/WH	7530	Linear Interconnect Network Bus 8	I	-
10	0.35	RD/VT	1940	Battery Positive Voltage	I	-
11	0.35	BN/BK	3389	Driver Mirror Motor Right (+) Left (-) Control	I	-
12	0.5	GY/WH	3411	Driver Mirror Motor Fold Out Control	I	-

S52 Outside Rearview Mirror Switch (except A45)



Connector Part Information

Harness Type: Driver Door Trim

OEM Connector: 13587624

Service Connector: 19151154

Description: 12-Way F 64 Series, Sealed (GY)

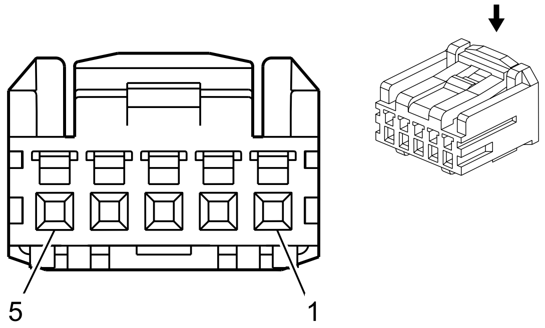
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

S52 Outside Rearview Mirror Switch (except A45)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE/VT	3397	Co-Driver Mirror Motor Up (+) Down (-) Control	I	-
2	0.5	WH/L-GN	3412	Driver Mirror Motor Fold In Control	I	-
3	0.35	YE/BN	3391	Driver Mirror Motor Common Control	I	-
4	0.35	L-GN/BK	3396	Co-Driver Mirror Motor Right (+) Left (-) Control	I	-
5	0.5	BK	1150	Ground	I	-
6	0.35	YE	6817	LED Backlight Dimming Control	I	-
7	0.35	VT/D-BU	3390	Driver Mirror Motor Up (+) Down (-) Control	I	-
8	0.35	WH	3398	Co-Driver Mirror Motor Common Control	I	-
9	0.5	GY/WH	3411	Driver Mirror Motor Fold Out Control	I	-
10	0.35	BN/BK	3389	Driver Mirror Motor Right (+) Left (-) Control	I	-
11	-	-	-	Not Occupied	-	-
12	0.35	RD/VT	1940	Battery Positive Voltage	I	-

S63 Roof Beacon Switch (TRW)



Connector Part Information

Harness Type: Overhead Console

OEM Connector: 15491277

Service Connector: 88988747

Description: 5-Way F HCM Series (BK)

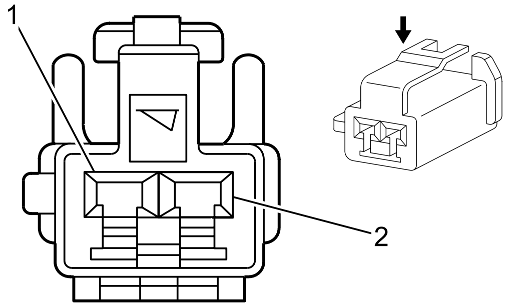
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575868	J-35616-64B (L-BU)	J-38125-12A	SHCM-A03T-P025	20	J	J

S63 Roof Beacon Switch (TRW)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	1050	Ground	I	-
2	0.5	YE	6817	LED Backlight Dimming Control	I	-
3	0.5	RD/YE	240	Battery Positive Voltage	I	-
4	0.5	WH/BK	5990	Emergency Lamp Switch Signal	I	-
5	-	-	-	Not Occupied	-	-

S64D Seat Adjuster Switch - Driver X1



Connector Part Information

Harness Type: Driver Seat Cushion

OEM Connector: 7283-6160

Service Connector: 88953305

Description: 2-Way F 090 Series (NA)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S64D Seat Adjuster Switch - Driver X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5 1.5	L-GN/BN L-GN/BN	1518 286	Power Seat Front Vertical Up Switch Signal Driver Power Seat Front Vertical Motor Up Control	I	-
2	2.5	BK	1150	Ground	I	-
3	0.5 1.5	YE/BN YE/L-BU	1522 285	Power Seat Horizontal Forward Switch Signal Driver Power Seat Horizontal Motor Forward Control	I	-
4	0.5 1.5	GY/BK L-GN/YE	1269 276	Power Seat Recline Forward Switch Signal Driver Power Seat Recline Motor Forward Control	I	-
5	0.5 1.5	L-BU/VT L-BU/VT	1520 287	Power Seat Front Vertical Down Switch Signal Driver Power Seat Front Vertical Motor Down Control	I	-
6	2.5 0.35	RD/YE BK	5040 1150	Battery Positive Voltage Ground	I	-
7	0.5 1.5	GY/L-GN GY/L-GN	1523 284	Power Seat Horizontal Rearward Switch Signal Driver Power Seat Horizontal Motor Rearward Control	I	-
8	0.5 1.5	YE YE	1519 282	Power Seat Rear Vertical Up Switch Signal Driver Power Seat Rear Vertical Motor Up Control	I	-
9	0.5 1.5	L-GN/GY L-BU/YE	1270 277	Power Seat Recline Rearward Switch Signal Driver Power Seat Recline Motor Rearward Control	I	-
10	0.5	YE/L-BU	1521	Power Seat Rear Vertical Down Switch Signal	I	-

10	0.5 1.5	YE/L-BU GY/L-BU	1521 283	Power Seat Rear Vertical Down Switch Signal Driver Power Seat Rear Vertical Motor Down Control	I	-

S64D Seat Adjuster Switch - Driver X2

Connector Part Information

Harness Type: Driver Seat Cushion

OEM Connector: 3-023-66-52

Service Connector: Service by Harness - See Part Catalog

Description:

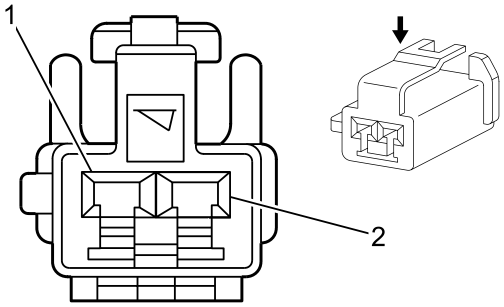
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S64D Seat Adjuster Switch - Driver X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH	1066	Driver Seat Lumbar Up Switch Signal	I	-
2	1.5 0.5	L-BU YE	611 1065	Driver Power Seat Lumbar Motor Forward Control Driver Seat Lumbar Forward Switch Signal	I	-
3-4	-	-	-	Not Occupied	-	-
5	0.5	YE/BK	1067	Driver Seat Lumbar Down Switch Signal	I	-
6	1.5 0.5	VT L-BU/VT	610 1064	Driver Power Seat Lumbar Motor Rearward Control Driver Seat Lumbar Rearward Switch Signal	I	-

S64P Seat Adjuster Switch - Passenger X1



Connector Part Information

Harness Type: Passenger Seat

OEM Connector: 7283-6160

Service Connector: 88953305

Description: 2-Way F 090 Series (NA)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S64P Seat Adjuster Switch - Passenger X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	L-GN/L-BU	298	Passenger Power Seat Front Vertical Motor Down Control	I	-
2	1.5	L-GN	76	Passenger Power Seat Recline Motor Forward	I	-
3	1.5	YE/WH	296	Passenger Power Seat Horizontal Motor Forward Control	I	-
4	1.5	L-GN/VT	297	Passenger Power Seat Front Vertical Motor Up Control	I	-
5	2.5	BK	1250	Ground	I	-
6	1.5	L-BU/WH	289	Passenger Power Seat Rear Vertical Motor Down Control	I	-
7	1.5	L-BU/BN	77	Passenger Power Seat Recline Motor Rearward	I	-
8	1.5	L-GN/WH	288	Passenger Power Seat Rear Vertical Motor Up Control	I	-
9	1.5	YE/L-BU	290	Passenger Power Seat Horizontal Motor Rearward Control	I	-
10	2.5	RD/BN	1440	Battery Positive Voltage	I	-

Connector Part Information

Harness Type: Passenger Seat

OEM Connector: 3-023-66-52

Service Connector: Service by Harness - See Part Catalog

Description:

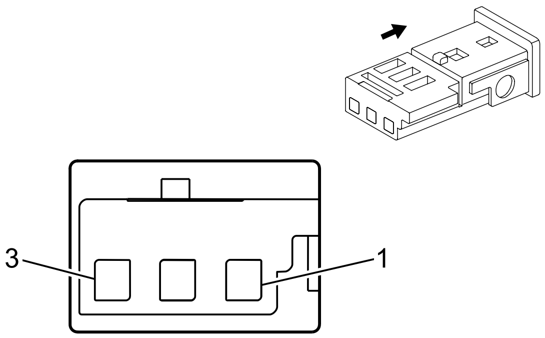
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S64P Seat Adjuster Switch - Passenger X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-2	-	-	-	Not Occupied	-	-
3	1.5	VT	210	Passenger Power Seat Lumbar Motor Rearward Control	I	-
4	1.5	BN/YE	793	Passenger Power Seat Lumbar Motor Up Control	I	-
5	-	-	-	Not Occupied	-	-
6	1.5	L-BU	211	Passenger Power Seat Lumbar Motor Forward Control	I	-
7	-	-	-	Not Occupied	-	-
8	1.5	L-BU/YE	792	Passenger Power Seat Lumbar Motor Down Control	I	-

S70E Steering Wheel Controls Switch - Radio Presets



Connector Part Information

Harness Type: Steering Wheel

OEM Connector: 13153088

Service Connector: Service by Harness — See Part Catalog

Description: 3-Way F 0.64 Micro Quadlock Series (BK)

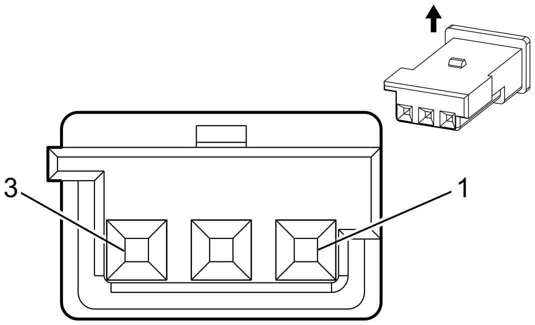
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S70E Steering Wheel Controls Switch - Radio Presets

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/YE	4313	Radio Favorite Forward Signal	I	-
2	0.35	YE/BU	4312	Radio Favorite Back Signal	I	-
3	0.35	BK	1050	Ground	I	-

S70F Steering Wheel Controls Switch - Radio Volume



Connector Part Information

Harness Type: Steering Wheel

OEM Connector: 4-1718346-1

Service Connector: Service by Harness — See Part Catalog

Description: 3-Way F Micro Quadlock Series (PU)

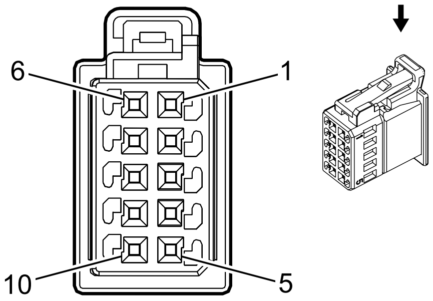
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S70F Steering Wheel Controls Switch - Radio Volume

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BU	4315	Radio Volume Up Signal	I	-
2	0.5	GN/BN	4314	Radio Volume Down Signal	I	-
3	0.5	BK	1550	Ground	I	-

S70L Steering Wheel Controls Switch - Left (X88 or Z88)



Connector Part Information

Harness Type: Steering Wheel

OEM Connector: 13582766

Service Connector: 19299776

Description: 10-Way F MQS Series BK

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S70L Steering Wheel Controls Switch - Left (X88 or Z88)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	1050	Ground	I	-
2	0.5	PU	1050	Ground	I	UVD
3	0.35	GY/OG	5737	Adaptive Cruise Control Gap Up/Down Switch Signal	I	K34/K59/KSG/UEU
4	0.35	BN/YE	1884	Cruise Control Set/Coast/Resume/Accelerate Switch Signal	I	K34
5	0.35	OG	5883	Heated Steering Wheel Switch Signal	I	UVD
6	0.35 0.35	YE YE	6817 6136	LED Backlight Dimming Control Supply Voltage	I	UK3 -UK3
7	0.35	WH	6816	Indicator Dimming Control	I	-
8	0.35	PK	5884	Heated Steering Wheel Switch LED Control	I	UVD
9	0.35	WH	1444	12 Volt Reference	I	K34
10	0.35	RD/YE	3040	Battery Positive Voltage	I	-

S70L Steering Wheel Controls Switch - Left (Z75)

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Connector Part Information

Harness Type: Steering Wheel

OEM Connector: 1394048-1

Service Connector: Service by Harness — See Part Catalog

Description: 12-Way F (BK)

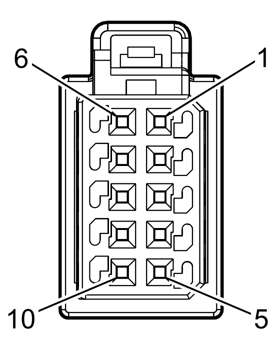
Terminal Part Information

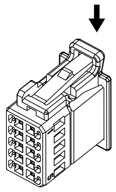
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S70L Steering Wheel Controls Switch - Left (Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GN	9500	Voice Switch Control	I	-
2	0.35	YE	6817	LED Backlight Dimming Control	I	-
3	0.35	BK/YE	9501	Phone Switch Control	I	-
4	-	-	-	Not Occupied	I	-
5	0.35	WH	6816	Indicator Dimming Control	I	-
6	0.35	BK	1050	Ground	I	-
7	0.35	RD/YE	3040	Battery Positive Voltage	I	-
8	0.35	WH	1444	12 Volt Reference	I	K34
9	0.35	GY/OG	5737	Adaptive Cruise Control Gap Up/Down Switch Signal	I	K34, KSG or UEU
10	0.35	BN/YE	1884	Cruise Control Set/Coast/Resume/Accelerate Switch Signal	I	K34
11	0.35	YE/GY	5883	Heated Steering Wheel Switch Signal	I	-
12	0.35	BN/WH	5884	Heated Steering Wheel Switch LED Control	I	-

S70R Steering Wheel Controls Switch - Right (X88 or Z88)





Connector Part Information

Harness Type: Steering Wheel

OEM Connector: 13582767

Service Connector: Service by Harness — See Part Catalog

Description: 10–Way F, 0.64 Micro-Quadlock Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S70R Steering Wheel Controls Switch - Right (X88 or Z88)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE	6817	LED Backlight Dimming Control	I	-
2	0.35	WH	6816	Indicator Dimming Control	I	-
3	0.5	GN	3894	Linear Interconnect Network Bus 12	I	-
4	-	-	-	Not Occupied	-	-
5	0.35	RD/YE	3040	Battery Positive Voltage	I	-
6	0.35	BK	1050	Ground	I	-
7	0.35	BU	4315	Radio Volume Up Signal	I	-
8	0.35	GN/BN	4314	Radio Volume Down Signal	I	-
9	0.35	WH/YE	4313	Radio Favorite Forward Signal	I	-
10	0.35	YE/BU	4312	Radio Favorite Back Signal	I	-

S70R Steering Wheel Controls Switch - Right (Z75)

—

Connector Part Information

Harness Type: Steering Wheel

OEM Connector: 1718228-1

Service Connector: Service by Harness — See Part Catalog

Description: 12–Way F, 0.64 GET Series (BK with NA Case)

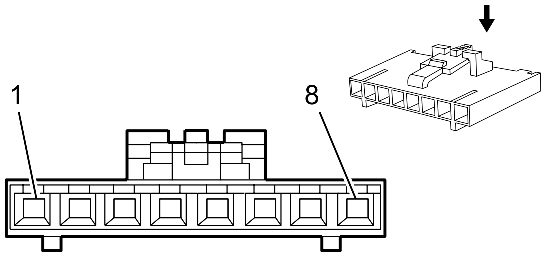
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S70R Steering Wheel Controls Switch - Right (Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GN	9500	Voice Switch Control	I	-
2	0.35	YE	6817	LED Backlight Dimming Control	I	-
3	0.35	BK/YE	9501	Phone Switch Control	I	-
4	-	-	-	Not Occupied	-	-
5	0.35	GN/BK	3894	Local Interconnect Network Serial data Bus 12	I	-
6	0.35	BK	1050	Ground	I	-
7	0.35	RD/YE	3040	Battery Positive Voltage	I	-
8	0.35	WH	6816	Indicator Dimming Control	I	-
9–12	-	-	-	Not Occupied	-	-

S72 Sunroof Switch (CF5)



Connector Part Information

Harness Type: Overhead Console

OEM Connector: 12103492

Service Connector: 89046705

Description: 8-Way F 0.64 SL Series (BK)

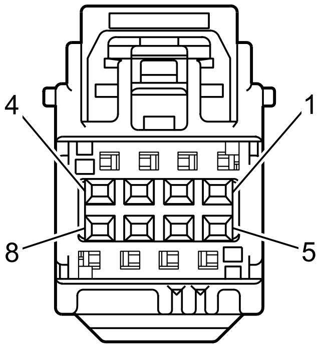
Terminal Part Information

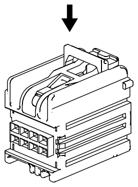
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-64B (L-BU)	J-38125-213	16-02-1110	20	H	H

S72 Sunroof Switch (CF5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BN/D-BU	2074	Sunroof Switch Express Signal	I	-
2	0.35	YE/VT	144	Sunroof Switch Open Vent Signal	I	-
3	0.35	YE	6817	LED Backlight Dimming Control	I	-
4	0.35	D-BU/WH	110	Sunroof Switch Close Signal	I	-
5	-	-	-	Not Occupied	-	-
6	0.35	L-GN/WH	100	Sunroof Switch Open Signal	I	-
7	0.35	BK	1050	Ground	I	-
8	0.35	GY/VT	2075	Sunroof Switch Close Vent Signal	I	-

S76 Trailer Brake Control Switch (JL1)





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13518475

Service Connector: 13576542

Description: 8-Way F YESC Kaizen Series (BK)

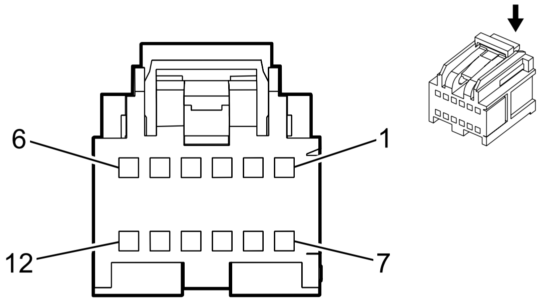
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

S76 Trailer Brake Control Switch (JL1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-2	-	-	-	Not Occupied	-	-
3	0.5	D-BU/RD	7632	Integrated Trailer Brake Controller Switch 5 Volt Reference	I	-
4	0.5	YE	7635	Integrated Trailer Brake Controller Manual Apply Signal	I	-
5	0.5	BN	7634	Integrated Trailer Brake Contoller Redundant Manual Apply Signal	I	-
6	0.5	L-GN/BK	7633	Integrated Trailer Brake Controller User Gain Signal	I	-
7	0.35	YE	6817	LED Backlight Dimming Control	I	-
8	0.5	BK/BN	7631	Integrated Trailer Brake Controller Switch Low Reference	I	-

S77 Transfer Case Shift Control Switch (NP0 or NQH)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13782626

Service Connector: Pending

Description: 12-Way F 0.64 OCS Series (GY)

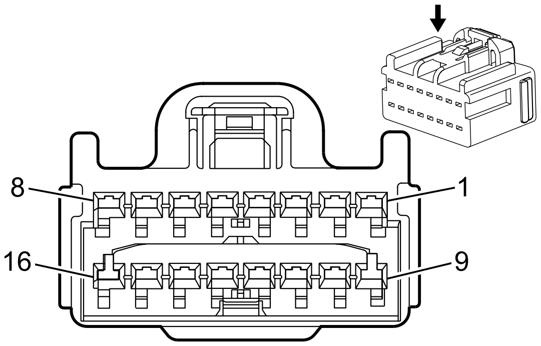
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13587581	Pending	Pending	Not Available	Not Available	Not Available	Not Available
II	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

S77 Transfer Case Shift Control Switch (NP0 or NQH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.5	VT/BN	300	Run Ignition 3 Voltage	I	-
3	0.35	BN	1560	Neutral Indicator Control	I	-
4	0.35	WH	6816	Indicator Dimming Control	I	-
5	0.35	YE	6817	LED Backlight Dimming Control	I	-
6	0.75	BK	1050	Ground	II	-
7	0.35	GY/L-GN	1561	AWD Indicator Control	I	-
8	0.35	L-GN/BK	1563	2 HI Indicator Control	I	-
9	0.35	BN/BK	1566	4 HI Indicator Control	I	-
10	0.35	VT/WH	1565	4 LO Indicator Control	I	-
11	0.35	GY/RD	6029	Four Wheel Drive Mode Switch 5 Volt Reference	I	-
12	0.35	D-BU/YE	1693	Four Wheel Drive Switch Signal	I	-

S78 Turn Signal Multifunction Switch X1



Connector Part Information

Harness Type: Steering Column

OEM Connector: 7283-6453-60

Service Connector: 89047090

Description: 16-Way F Kaizen YESC Series (GN)

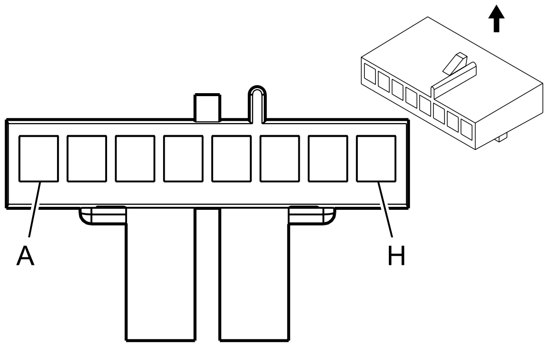
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S78 Turn Signal Multifunction Switch X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-3	-	-	-	Not Occupied	-	-
4	0.5	GY	1715	Windshield Wiper Switch High Signal	I	-
5	-	-	-	Not Occupied	-	-
6	0.5	WH/BK	94	Windshield Washer Switch Signal	I	-
7	0.5	BK/GY	6009	Low Reference	I	-
8	0.5	YE/BU	1714	Windshield Wiper Switch Low Signal	I	-
9	-	-	-	Not Occupied	-	-
10	0.5	YE/BN	307	Headlamp Switch Flash To Pass Signal	I	-
11-12	-	-	-	Not Occupied	-	-
13	0.5	BK/WH	1851	Signal Ground	I	-
14	0.5	WH	524	Headlamp Dimmer Switch High Beam Signal	I	-
15-16	-	-	-	Not Occupied	-	-

S78 Turn Signal Multifunction Switch X2



Connector Part Information

Harness Type: Steering Column

OEM Connector: 15466859

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 150 Metri Pack Series (L-GY)

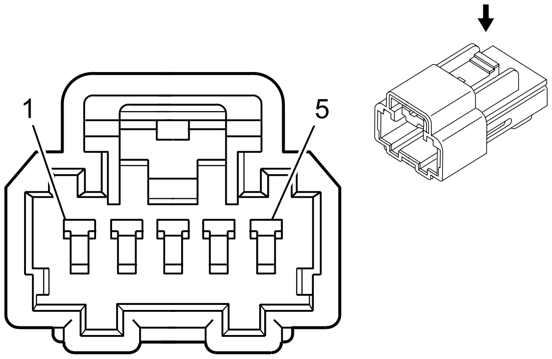
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S78 Turn Signal Multifunction Switch X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A-B	-	-	-	Not Occupied	-	-
C	0.5	BK/WH	1851	Ground	I	-
D	0.5	VT/BU	664	Hazard Switch Right Turn Signal	I	-
E	0.5	WH/GN	663	Hazard Switch Left Turn Signal	I	-
F	0.5	BK/WH	1851	Ground	I	-
G	0.5	GN/WH	111	Hazard Switch Signal	I	-
H	-	-	-	Not Occupied	-	-

S78 Turn Signal / Multifunction Switch X3



Connector Part Information

Harness Type: Steering Column

OEM Connector: HCMWSB-05-K

Service Connector: Service by Harness - See Part Catalog

Description: 5-Way M, HCM-W Series (BK)

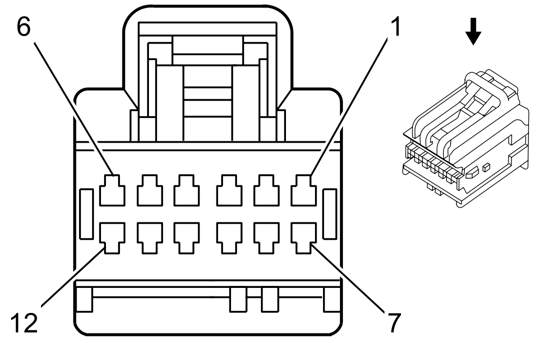
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S78 Turn Signal / Multifunction Switch X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/D-BU	391	Rear Window Wiper Switch Signal	I	-
2	0.5	BK/WH	1851	Ground	I	-
3	-	-	-	Not Occupied	-	-
4	0.5	GY/YE	7595	Auto Wiper On Signal	I	-
5	-	-	-	Not Occupied	-	-

S79D Window Switch - Driver



Connector Part Information

Harness Type: Driver Door Trim

OEM Connector: 13551678

Service Connector: 89047364

Description: 12-Way F 0.64 Series (BK)

Harness Type: Driver Door

OEM Connector: 13551678

Service Connector: 89047364

Description: 12-Way F 0.64 Series (BK)

Terminal Part Information

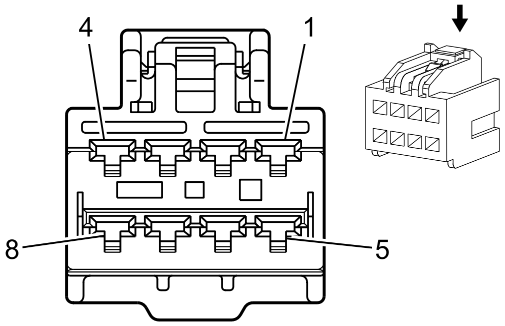
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327118	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
II	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P
III	13579945	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

S79D Window Switch - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	1150	Ground	I	-
2	0.35	L-GN/VT	7628	Power Window Motor Left Front Express Control	II	-
3	0.35 0.35	GY/BK GY	1136 1136	Power Window Master Switch Left Front Down Signal Power Window Master Switch Left Front Down Signal	II	-
4	0.5	RD/VT	1940	Battery Positive Voltage	II	-
5	0.5	L-GN/YE	6134	Linear Interconnect Network Bus 3	II	-
6	0.35	L-GN/WH	1300	Power Window Master Switch Left Front Up Signal	II	-
7	0.35	WH/VT	3270	Driver Door Lock Motor Status	II	-
8	0.35	D-BU/VT	1124	Door Lock Key Switch Unlock Signal	II	-
9	-	-	-	Not Occupied	-	-
10	0.35	YE/BN	3265	Child Security Lock Switch Signal	II	-

11	0.35	WH	6816	Indicator Dimming Control	II	-
12	0.35	GY	5697	Child Lockout Indicator	II	-

S79LR Window Switch - Left Rear



Connector Part Information

Harness Type: Left Rear Door

OEM Connector: 15491286

Service Connector: 13580111

Description: 8-Way F 2.8 Series (BK)

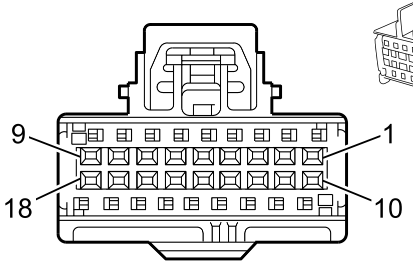
Terminal Part Information

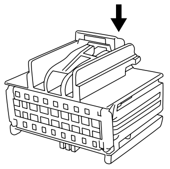
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575576	J-35616-35 (VT)	J-38125-553	8100-4443	22	E	A
II	13575578	J-35616-35 (VT)	J-38125-553	8100-4445	22	F	D

S79LR Window Switch - Left Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN/GY	6135	Linear Interconnect Network Bus 4	I	-
2	0.35	GY/WH	747	Left Rear Door Ajar Switch Signal	I	-
3	0.5	BK	1150	Ground	I	-
4	-	-	-	Not Occupied	-	-
5	2.5	BK	1150	Ground	II	-
6	2.5	D-BU/VT	668	Power Window Motor Left Rear Up Control	II	-
7	2.5	YE/D-BU	669	Power Window Motor Left Rear Down Control	II	-
8	2.5	RD/D-BU	1842	Battery Positive Voltage	II	-

S79P Window Switch - Passenger (A45)





Connector Part Information

Harness Type: Passenger Door Trim

OEM Connector: 13548562

Service Connector: 89047360

Description: 18-Way F 0.64 Kaizen Series (BK)

Harness Type: Passenger Door

OEM Connector: 13548562

Service Connector: 89047360

Description: 18-Way F 0.64 Kaizen Series (BK)

Terminal Part Information

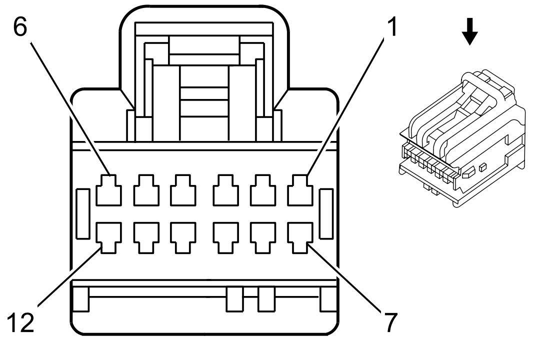
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P
II	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

S79P Window Switch - Passenger (A45)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/WH	3413	Co-Driver Mirror Motor Fold Out Control	I	-
2	0.35	YE/VT	3397	Co-Driver Mirror Motor Up (+) Down (-) Control	I	-
3	0.35	WH	3398	Co-Driver Mirror Motor Common Control	I	-
4	0.35	YE/RD	3399	Co-Driver Mirror Position Sensor High Reference	I	-
5	0.35	D-BU/YE	3401	Co-Driver Mirror Position Sensor Up (+) Down (-) Signal	I	-
6	0.35	BK/L-GN	3400	Co-Driver Mirror Position Sensor Low Reference	I	-
7	0.5	D-BU/GY	3414	Co-Driver Mirror Motor Fold In Control	I	-
8	0.35	L-GN/BK	3396	Co-Driver Mirror Motor Right (+) Left (-) Control	I	-
9	0.5	L-GN/WH	7530	Linear Interconnect Network Bus 8	I	-
10	-	-	-	Not Occupied	-	-
11	0.35	VT/WH	3403	Co-Driver Mirror Position Sensor Left (-) Right (+) Signal	I	-
12	-	-	-	Not Occupied	-	-

12	-	-	-	Not Occupied	-	-
13	0.35	BK	1250	Ground	I	-
14	0.35	VT/GY	2765	Power Window Switch Right Front Express Signal	I	-
15	0.35	BN/YE	167	Power Window Master Switch Right Front Down Signal	I	-
16	0.5	RD/D-BU	840	Battery Positive Voltage	I	-
17	0.35	YE	6817	LED Backlight Dimming Control	I	-
18	0.35	YE/BK	166	Power Window Master Switch Right Front Up Signal	I	-

S79P Window Switch - Passenger (except A45)



Connector Part Information

Harness Type: Passenger Door Trim

OEM Connector: 13551678

Service Connector: 89047364

Description: 12-Way F 0.64 Series (BK)

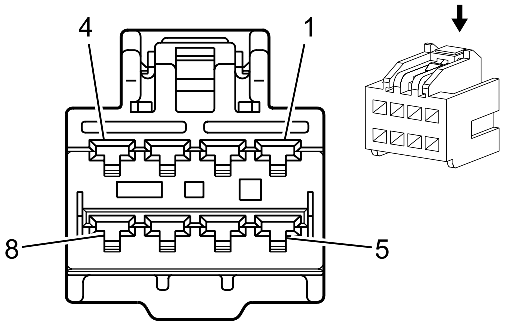
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

S79P Window Switch - Passenger (except A45)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	1250	Ground	I	-
2	0.35	VT/GY	2765	Power Window Switch Right Front Express Signal	I	-
3	0.35	BN/YE	167	Power Window Master Switch Right Front Down Signal	I	-
4	0.5	RD/D-BU	840	Battery Positive Voltage	I	-
5	0.35	YE	6817	LED Backlight Dimming Control	I	-
6	0.35	YE/BK	166	Power Window Master Switch Right Front Up Signal	I	-
7-12	-	-	-	Not Occupied	-	-

S79RR Window Switch - Right Rear



Connector Part Information

Harness Type: Right Rear Door

OEM Connector: 15491286

Service Connector: 13580111

Description: 8-Way F 2.8 Series (BK)

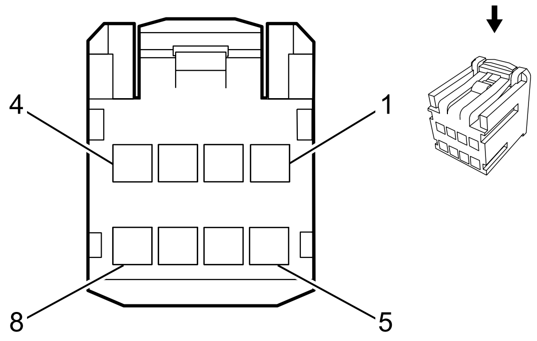
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575576	J-35616-35 (VT)	J-38125-553	8100-4443	22	E	A
II	13575578	J-35616-35 (VT)	J-38125-553	8100-4445	22	F	D

S79RR Window Switch - Right Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN/GY	6135	Linear Interconnect Network Bus 4	I	-
2	0.35	GY/WH	748	Right Rear Door Ajar Switch Signal	I	-
3-4	-	-	-	Not Occupied	-	-
5	2.5	BK	1250	Ground	II	-
6	2.5	D-BU/GY	670	Power Window Motor Right Rear Up Control	II	-
7	2.5	L-GN/BK	671	Power Window Motor Right Rear Down Control	II	-
8	2.5	RD/WH	1340	Battery Positive Voltage	II	-

S91 Park Brake Control Switch (J71)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13609516

Service Connector: 13576541

Description: 8-Way F 1.2 HCM Series (BK)

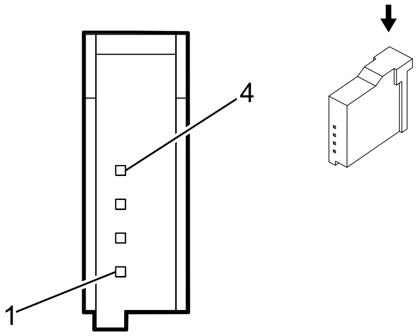
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575868	J-35616-64B (L-BU)	J-38125-12A	SHCM-A03T-P025	20	J	J

S91 Park Brake Control Switch (J71)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE	1492	Park Brake Switch Supply Voltage	I	-
2	0.35	D-BU/VT	1134	Park Brake Switch Signal	I	-
3	0.35	YE/RD	7683	Park Brake Release Switch Voltage Reference	I	-
4	0.35	BN	6107	Park Brake Apply Switch Signal	I	-
5	0.35	D-BU/BK	6108	Park Brake Release Switch Signal	I	-
6	0.35	YE	6817	LED Backlight Dimming Control	I	-
7	0.35	GY/RD	7684	Park Brake Apply Switch Voltage Reference	I	-
8	0.35	BK/WH	1851	Signal Ground	I	-

S98D Seat Massage Switch - Driver (ULT)



Connector Part Information

Harness Type: Driver Seat Cushion

OEM Connector: 13579144

Service Connector: 13585622

Description: 4-Way F 0.64 Series (BK)

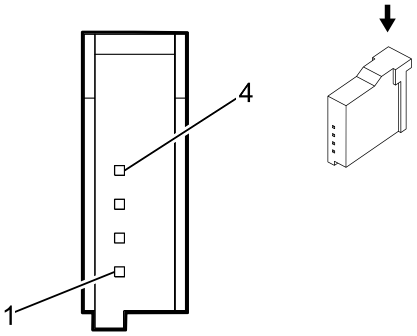
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S98D Seat Massage Switch - Driver (ULT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/BN	2240	Battery Positive Voltage	I	-
2	-	-	-	Not Occupied	-	-
3	0.35	L-GN/GY	3758	Linear Interconnect Network Bus 13	I	-
4	0.5	BK	1150	Ground	I	-

S98P Seat Massage Switch - Passenger (ULT)



Connector Part Information

Harness Type: Passenger Seat Cushion

OEM Connector: 13579144

Service Connector: 13585622

Description: 4-Way F 0.64 Series (BK)

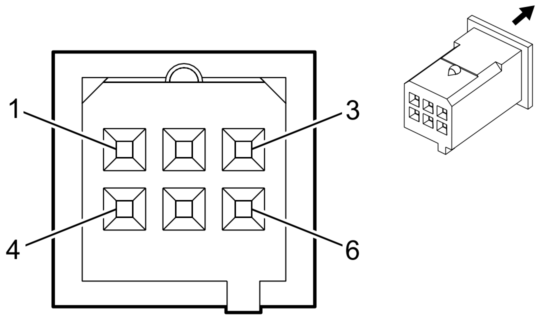
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S98P Seat Massage Switch - Passenger (ULT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/WH	2240	Battery Positive Voltage	I	-
2	-	-	-	Not Occupied	-	-
3	0.35	L-GN/GY	3758	Linear Interconnect Network Bus 13	I	-
4	0.5	BK	1250	Ground	I	

S135 Rollover Protection Disable Switch (9CI)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13548426

Service Connector: 13225892

Description: 6-Way F 0.64 Micro Quadlock Series (NA)

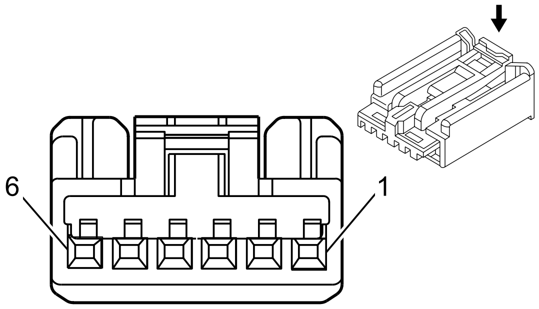
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327123	J-35616-65B (L-BU)	J-38125-553	Not Available	Not Available	Not Available	Not Available

S135 Rollover Protection Disable Switch (9CI)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	VT/OG	371	Passenger IP Module Disable Switch Signal	I	-
2	0.35	D-BU/OG	7328	Passenger IP Module Disable Switch Return	I	-
3-6	-	-	-	Not Occupied	-	-

S140 Media Disc Eject Switch (Z75)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13595476

Service Connector: 19167753

Description: 6-Way F 0.64 Kaizen Series (BK)

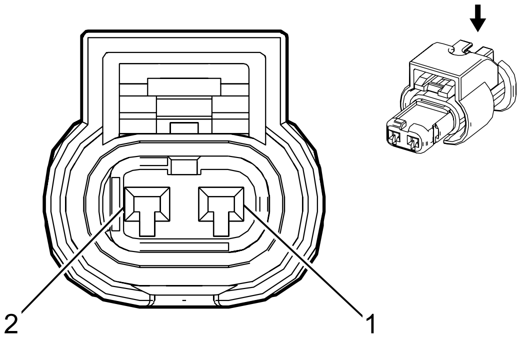
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

S140 Media Disc Eject Switch (Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/L-GN	1540	Battery Positive Voltage	I	-
2	-	-	-	Not Occupied	-	-
3	0.5	WH	6816	Indicator Dimming Control	I	-
4	0.35	GY	4016	Remote Media Eject Signal	I	-
5	0.5	YE	6817	LED Backlight Dimming Control	I	-
6	0.35	BK	2550	Ground	I	-

S141 Liftgate Window Unlatch Switch



Connector Part Information

Harness Type: Liftgate

OEM Connector: 13761652

Service Connector: 13577519

Description: 2-Way F 1.2 MCP Series, Sealed (BK with BK Inner Connector)

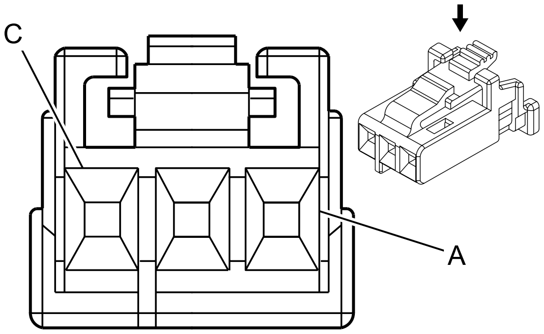
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13587557	J-35616-16 (L-GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

S141 Liftgate Window Unlatch Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	1450	Ground	I	-
2	0.35	GY/L-GN	6190	Lift Glass/Trunk Exterior Release Signal	I	-

S143L Folding Seat Control Switch - 2nd Row Left (ATN or ATT)



Connector Part Information

Harness Type: Body

OEM Connector: 15417063

Service Connector: 88987857

Description: 3-Way F 0.64 Micro Pack Series (BK)

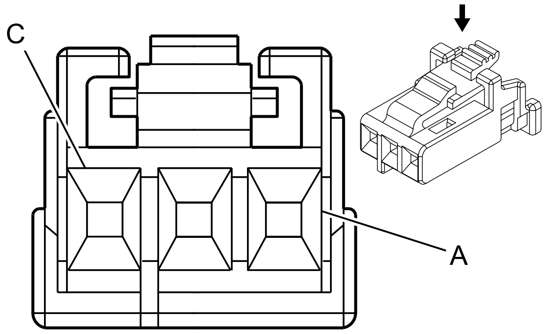
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13582228	J-35616-64B (L-BU)	J-38125-559	12177007	19	E	2

S143L Folding Seat Control Switch - 2nd Row Left (ATN or ATT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	L-GN	6808	Left Rear Seat Fold Tumble Control	I	-
B	-	-	-	Not Occupied	-	-
C	0.5	YE/BK	5813	Park Enable Supply Voltage	I	-

S143R Folding Seat Control Switch - 2nd Row Right (AT or ATT)



Connector Part Information

Harness Type: 2nd Row Seat Jumper

OEM Connector: 15417063

Service Connector: 88987857

Description: 3-Way F 0.64 Micro Pack Series (BK)

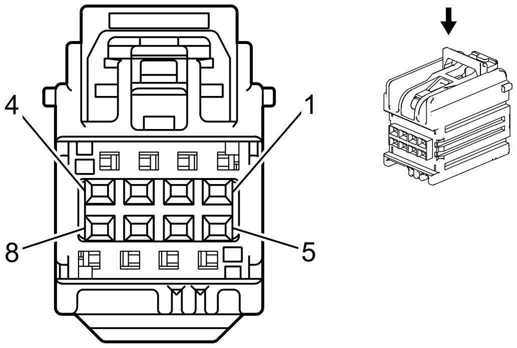
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13582228	J-35616-64B (L-BU)	J-38125-559	12177007	19	E	2

S143R Folding Seat Control Switch - 2nd Row Right (AT or ATT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BN/WH	6809	Right Rear Seat Fold Tumble Control	I	-
B	-	-	-	Not Occupied	-	-
C	0.5	YE/BK	5813	Park Enable Supply Voltage	I	-

S144A Folding Seat Control Switch - Rear Compartment 2nd Row (ATN or ATT)



Connector Part Information

Harness Type: Body

OEM Connector: 13518475

Service Connector: 13576542

Description: 8-Way F YESC Kaizen Series (BK)

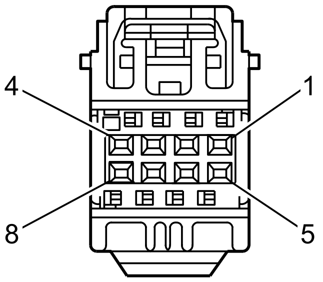
Terminal Part Information

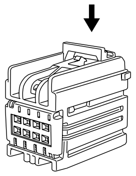
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

S144A Folding Seat Control Switch - Rear Compartment 2nd Row (ATN or ATT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.5	YE/BK	5813	Park Enable Supply Voltage	I	-
3	-	-	-	Not Occupied	-	-
4	0.5	L-GN	6808	Left Rear Seat Fold Tumble Control	I	-
5	0.35	BN/WH	6809	Right Rear Seat Fold Tumble Control	I	-
6-8	-	-	-	Not Occupied	-	-

S144B Folding Seat Control Switch - Rear Compartment 3rd Row (AS8)





Connector Part Information

Harness Type: Body

OEM Connector: 13551679

Service Connector: 19115653

Description: 8-Way F YESC Kaizen Series (L-GY)

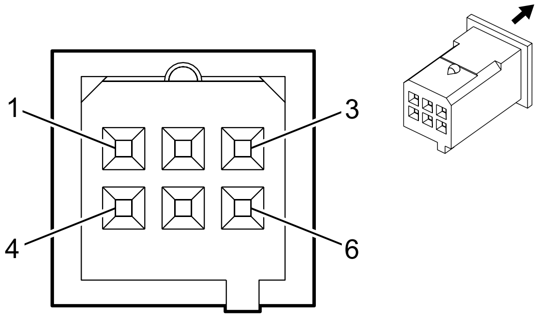
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P
II	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

S144B Folding Seat Control Switch - Rear Compartment 3rd Row (AS8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/BK	5813	Park Enable Supply Voltage	I	-
2	0.5 0.5 0.5	L-GN L-GN L-GN/BK	901 4224 901		II	-
3	0.5 0.5	L-GN/BK L-GN/BK	6811 4223	Left Rear Seat Fold Tumble Signal	II	-
4	0.5 0.5 0.5	YE YE L-GN/BK	902 4220 902		II	-
5	0.5 0.5	YE/BK YE/BK	6810 4219	Right Rear Seat Fold Tumble Signal	II	-
6-8	-	-	-	Not Occupied	-	-

S145 Center Console Compartment Cooler Switch (DCK)



Connector Part Information

Harness Type: Floor Console

OEM Connector: 13548426

Service Connector: 13225892

Description: 6-Way F 0.64 Micro Quadlock Series (NA)

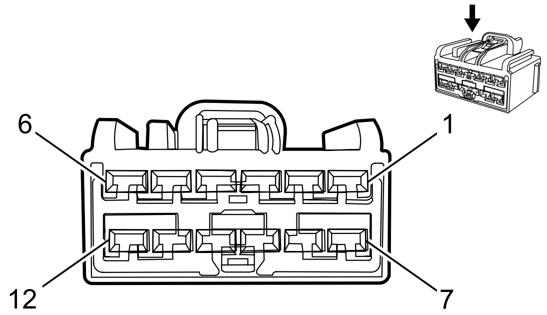
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327122	J-35616-65B (L-BU)	J-38125-553	Not Available	Not Available	Not Available	Not Available
II	13327123	J-35616-65B (L-BU)	J-38125-553	Not Available	Not Available	Not Available	Not Available

S145 Center Console Compartment Cooler Switch (DCK)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE	6817	LED Backlight Dimming Control	I	-
2	0.35	BN	6532	Power Trunk On/Off Control	II	-
3	0.5	BK	1050	Ground	I	-
4	-	-	-	Not Occupied	-	-
5	0.35	GY/BK	2546	Rear Steering Axle Control Motor Supply Voltage Phase B	II	-
6	0.5	WH	6816	Indicator Dimming Control	I	-

T1 Accessory DC/AC Power Inverter Module (KI4 or KI5)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 10846814

Service Connector: 13580444

Description: 12-Way F 2.8 Kaizen Series (L-GY)

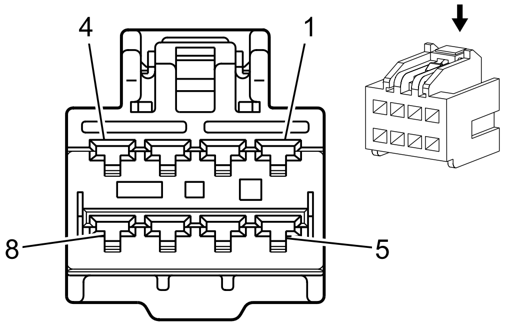
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575836	J-35616-35 (VT)	J-38125-11A	7116-4112-02	9	Not Available	Not Available
II	13575295	J-35616-35 (VT)	J-38125-11A	7116-4112-02	9	C	D
III	13575295	J-35616-35 (VT)	J-38125-11A	7116-4112-02	9	Not Available	Not Available
IV	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available
V	Pending	J-35616-35 (VT)	J-38125-12A	1326030-6	17	E	C

T1 Accessory DC/AC Power Inverter Module (KI4 or KI5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	1.5 1.5	BK BK	5683 5683	120 VAC Phase A 230 VAC Phase A	III	KI4 KI5
3-5	-	-	-	Not Occupied	-	-
6	2.5	RD/GY	4140	Battery Positive Voltage	II	-
7	1.5 1.5	RD RD	5684 5684	120 VAC Phase B 230 VAC Phase B	III	KI4 KI5
8-9	-	-	-	Not Occupied	-	-
10	0.5	Bare	514	Drain Wire	I	-
11	2.5	BK	1050	Ground	II	-
12	0.35	D-BU/BN	6807	DC To AC Inverter Control	I	-

T3 Audio Amplifier X1 (UQA, UQH or UQS)



Connector Part Information

Harness Type: Body

OEM Connector: 15491286

Service Connector: 13580111

Description: 8-Way F 2.8 Series (BK)

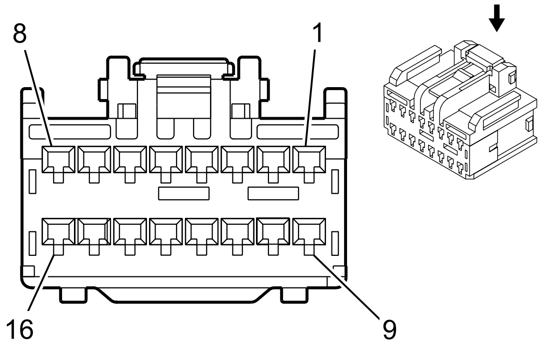
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575578	J-35616-35 (VT)	J-38125-553	8100-4445	22	F	D
II	13582326	J-35616-35 (VT)	J-38125-553	8100-4444	22	2	A

T3 Audio Amplifier X1 (UQA, UQH or UQS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	D-BU/GY	346	Left/Rear Subwoofer Speaker (+)	I	-
2	1	YE	200	Right Front Speaker (+) (1)	II	-
3	1	D-BU	201	Left Front Speaker (+) (1)	II	-
4	2.5	RD/YE	3740	Battery Positive Voltage	I	-
5	2.5	GY/BK	315	Right Subwoofer Speaker (-)	I	-
6	1	YE/BK	117	Right Front Speaker Signal (-) (1)	II	-
7	1	BN/D-BU	118	Left Front Speaker Signal (-) (1)	II	-
8	2.5	BK	2550	Ground	I	-

T3 Audio Amplifier X2 (UQA, UQH or UQS)



Connector Part Information

Harness Type: Body

OEM Connector: 15489823

Service Connector: 15134091

Description: 16-Way F 1.5 Series (BK)

Terminal Part Information

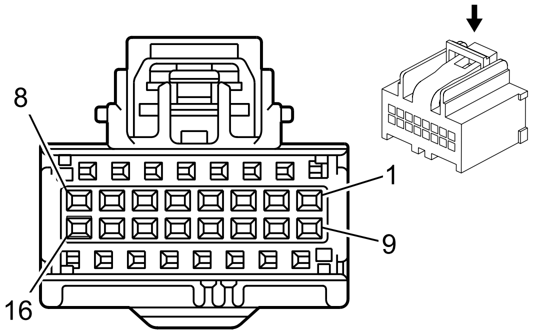
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575790	J-35616-2A (GY)	J-38125-553	15496302	5	2	A
II	13327201	J-35616-2A (GY)	J-38125-553	8240-0128	22	C	A

T3 Audio Amplifier X2 (UQA, UQH or UQS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	YE/GY	1956	Left Front Tweeter Speaker (-)	I	-
2	0.75	D-BU/YE	1960	Front Center Speaker (-)	I	-
3	1	YE/BN	1859	Left Rear Midrange Speaker (+)	I	-
4	0.75	BN/L-GN	1852	Right Front Tweeter Speaker (+)	I	-
5	0.75	YE/D-BU	1856	Left Front Tweeter Speaker (+)	I	-
6	1	WH	46	Right Rear Speaker (+)	II	-
7	1	L-GN	199	Left Rear Speaker (+)	II	-
8	-	-	-	Not Occupied	-	-
9	0.75	YE/D-BU	1856	Left Front Tweeter Speaker (+)	I	-
10	0.75	YE/WH	1860	Front Center Speaker (+)	I	-
11	1	WH/BK	1959	Left Rear Midrange Speaker (-)	I	-
12	0.75	VT/BN	1952	Right Front Tweeter Speaker (-)	I	-
13	0.75	YE/GY	1956	Left Front Tweeter Speaker (-)	I	-
14	1	D-BU/BK	115	Right Rear Speaker Signal (-)	II	-

15	1	L-GN/BK	116	Left Rear Speaker Signal (-)	II	-
16	-	-	-	Not Occupied	-	-

T3 Audio Amplifier X3 (UQA, UQH or UQS)



Connector Part Information

Harness Type: Body

OEM Connector: 15491285

Service Connector: 15136073

Description: 16-Way F Kaizen 64 Series (BK)

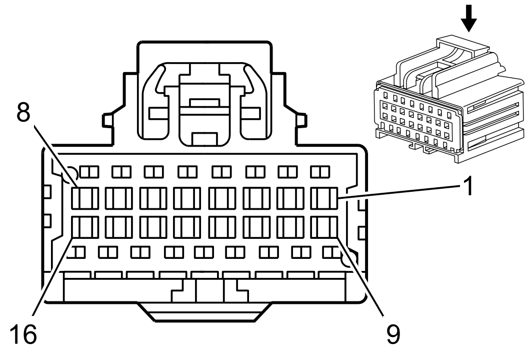
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579945	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
II	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

T3 Audio Amplifier X3 (UQA, UQH or UQS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	L-GN	5060	Low Speed GMLAN Serial Data	I	-
2	0.35	VT/D-BU	6091	Crankshaft Position Sensor Replicated Signal	II	-
3	-	-	-	Not Occupied	-	-
4	0.35	L-GN/BN	3005	Noise Reduction Microphone #1 Signal	II	-
5	0.35	D-BU/YE	3006	Noise Reduction Microphone #2 Signal	II	-
6	0.35	GY/D-BU	3007	Noise Reduction Microphone #3 Signal	II	-
7	-	-	-	Not Occupied	-	-
8	0.75	BN/L-GN	1852	Right Front Tweeter Speaker (+)	I	-
9-11	-	-	-	Not Occupied	-	-
12	0.35	L-GN/BK	3008	Noise Reduction Microphone #1 Return	II	-
13	0.35	D-BU/BK	3009	Noise Reduction Microphone #2 Return	II	-
14	0.35	GY/BN	3010	Noise Reduction Microphone #3 Return	II	-
15	-	-	-	Not Occupied	-	-
16	0.75	VT/BN	1952	Right Front Tweeter Speaker (-)	I	-

T3 Audio Amplifier X4 (UQA, UQH or UQS)



Connector Part Information

Harness Type: Body

OEM Connector: 15466054

Service Connector: 15136074

Description: 16-Way F 0.64 Kaizen Series (BN)

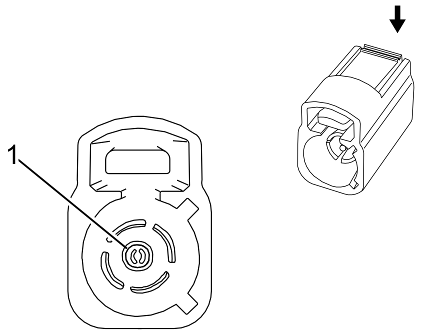
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

T3 Audio Amplifier X4 (UQA, UQH or UQS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-2	-	-	-	Not Occupied	-	-
3	0.35	WH/GN	3997	MOST Serial Data (-)	I	-
4	0.35	GY/VT	3998	MOST Serial Data (+)	I	-
5	0.35	WH/GN	3997	MOST Serial Data (-)	I	-
6	0.35	GY/VT	3998	MOST Serial Data (+)	I	-
7-13	-	-	-	Not Occupied	-	-
14	0.35	WH/VT	3999	MOST Control	I	-
15-16	-	-	-	Not Occupied	-	-

T4G Cellular Phone, Navigation, and Digital Radio Antenna X1 (IO6 with UE1 without CV3)



Connector Part Information

Harness Type: Body COAX

OEM Connector: 13746736

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 1-Way F COAX (PU)

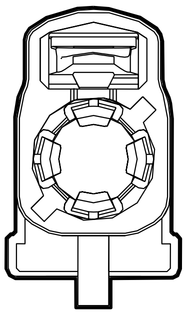
Terminal Part Information

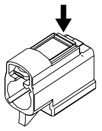
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

T4G Cellular Phone, Navigation, and Digital Radio Antenna X1 (IO6 with UE1 without CV3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	COAX	—	Coaxial Antenna Cell/GPS combined Signal	I	—

T4G Cellular Phone, Navigation, and Digital Radio Antenna X3 (IO6 without UE1)





Connector Part Information

Harness Type: Body COAX

OEM Connector: 13746735

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 1-Way F COAX (BU)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

T4G Cellular Phone, Navigation, and Digital Radio Antenna X3 (IO6 without UE1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	COAX	—	Coaxial Antenna GPS Signal	I	—

T4G Cellular Phone, Navigation, and Digital Radio Antenna X3 (CV3 with UE1)

—

Connector Part Information

Harness Type: Body COAX

OEM Connector: 13585483

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 2-Way F COAX (BU)

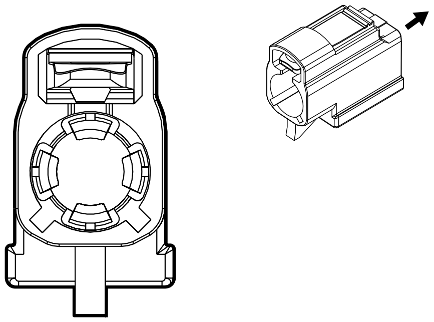
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

T4G Cellular Phone, Navigation, and Digital Radio Antenna X3 (CV3 with UE1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	COAX	—	Coaxial Antenna Cell Signal	I	—
2	—	COAX	—	Coaxial Antenna GPS Signal	I	—

T4G Cellular Phone, Navigation, and Digital Radio Antenna X4 (U2M)



Connector Part Information

Harness Type: Body COAX

OEM Connector: 13746737

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 1-Way F COAX (CU)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

T4G Cellular Phone, Navigation, and Digital Radio Antenna X4 (U2M)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	COAX	—	Coaxial Antenna XM Signal	I	—

T4G Cellular Phone, Navigation, and Digital Radio Antenna X5 (VV4)

—

Connector Part Information

Harness Type: Body COAX

OEM Connector: 13585481

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 2-Way F COAX (VT)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

T4G Cellular Phone, Navigation, and Digital Radio Antenna X5 (VV4)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	COAX	—	Coaxial Antenna Cell/GPS Combined Signal	I	—
2	—	COAX	—	Coaxial Antenna Cell Phone Signal	I	—

T7L Headlamp Ballast - Left X1 (T4F)

—

Connector Part Information

Harness Type: Left Headlamp

OEM Connector: Not Available

Service Connector: Service by Component - See Part Catalog

Description: 3-Way F 150 GT Series, Sealed (BK)

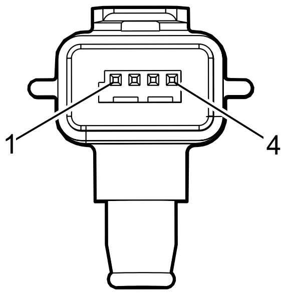
Terminal Part Information

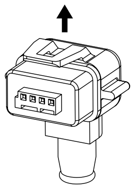
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

T7L Headlamp Ballast - Left X1 (T4F)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	-	-	-	Not Occupied	-	-
B	0.50	BK	150	Ground	I	-
C	0.50	PU	712	Left Headlamp Low Beam Control	I	-

T7L Headlamp Ballast - Left X2 (T4F)





Connector Part Information

Harness Type: Left Headlamp High Voltage

OEM Connector: Not Available

Service Connector: Service by Component - See Part Catalog

Description: 4-Way F High Voltage, sealed (GN with BK case)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

T7L Headlamp Ballast - Left X2 (T4F)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0	—	—	High Voltage COAX	I	-
2	0	—	—	High Voltage COAX	I	-
3	-	-	-	Not Occupied	-	-
4	0	—	—	High Voltage COAX	I	-

T7R Headlamp Ballast - Right X1 (T4F)

—

Connector Part Information

Harness Type: Right Headlamp

OEM Connector: Not Available

Service Connector: Service by Component - See Part Catalog

Description: 3-Way F 150 GT Series, Sealed (BK)

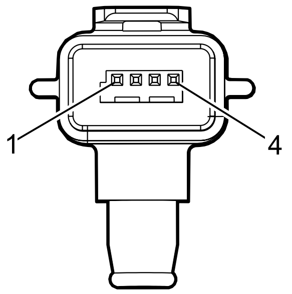
Terminal Part Information

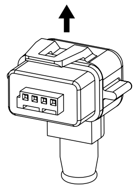
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

T7R Headlamp Ballast - Right X1 (T4F)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	-	-	-	Not Occupied	-	-
B	0.50	BK	250	Ground	I	-
C	0.50	PU	312	Right Headlamp Low Beam Control	I	-

T7R Headlamp Ballast - Right X2 (T4F)





Connector Part Information

Harness Type: Right Headlamp High Voltage

OEM Connector: Not Available

Service Connector: Service by Component - See Part Catalog

Description: 4-Way F High Voltage, sealed (GN with BK case)

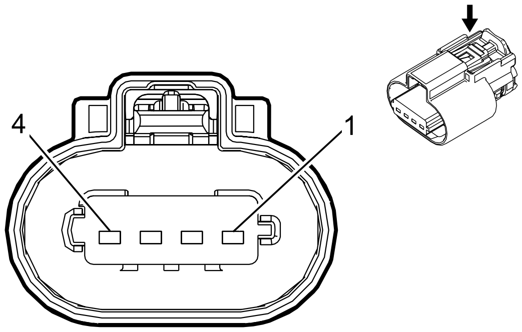
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

T7R Headlamp Ballast - Right X2 (T4F)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0	—	—	High Voltage COAX	I	-
2	0	—	—	High Voltage COAX	I	-
3	-	-	-	Not Occupied	-	-
4	0	—	—	High Voltage COAX	I	-

T8A Ignition Coil 1



Connector Part Information

Harness Type: Engine

OEM Connector: 13863211

Service Connector: 19301722

Description: 4-Way F 150 MX Series, Sealed (BK)

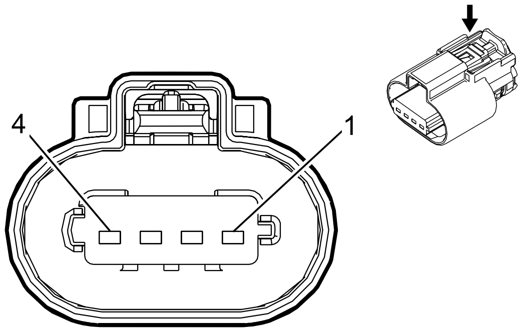
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579952	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	Not Available	Not Available

T8A Ignition Coil 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	350	Ground	I	-
2	0.5	BK/D-BU	2129	Ignition Control Low Reference Bank 1	I	-
3	0.5	D-BU/VT	2121	Ignition Control (1)	I	-
4	0.75	VT/D-BU	5291	Powertrain Main Relay Fused Supply (2)	I	-

T8B Ignition Coil 2



Connector Part Information

Harness Type: Engine

OEM Connector: 13863211

Service Connector: 19301722

Description: 4-Way F 150 MX Series, Sealed (BK)

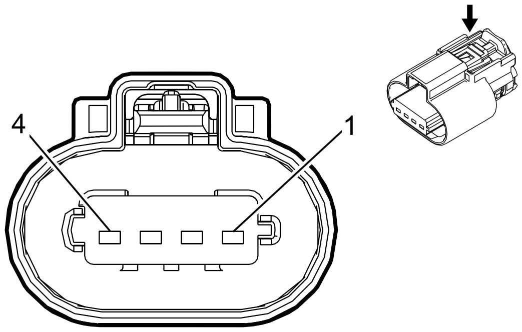
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579952	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	Not Available	Not Available

T8B Ignition Coil 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	350	Ground	I	-
2	0.5	BK/GY	2130	Ignition Control Low Reference Bank 2	I	-
3	0.5	D-BU/WH	2122	Ignition Control (2)	I	-
4	0.75	VT/D-BU	5292	Powertrain Main Relay Fused Supply (3)	I	-

T8C Ignition Coil 3



Connector Part Information

Harness Type: Engine

OEM Connector: 13863211

Service Connector: 19301722

Description: 4-Way F 150 MX Series, Sealed (BK)

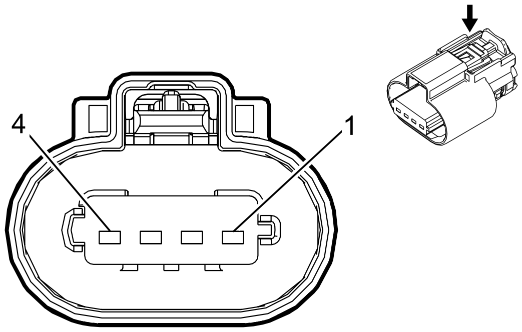
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579952	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	Not Available	Not Available

T8C Ignition Coil 3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	350	Ground	I	-
2	0.5	BK/D-BU	2129	Ignition Control Low Reference Bank 1	I	-
3	0.5	L-GN/D-BU	2123	Ignition Control (3)	I	-
4	0.75	VT/D-BU	5291	Powertrain Main Relay Fused Supply (2)	I	-

T8D Ignition Coil 4



Connector Part Information

Harness Type: Engine

OEM Connector: 13863211

Service Connector: 19301722

Description: 4-Way F 150 MX Series, Sealed (BK)

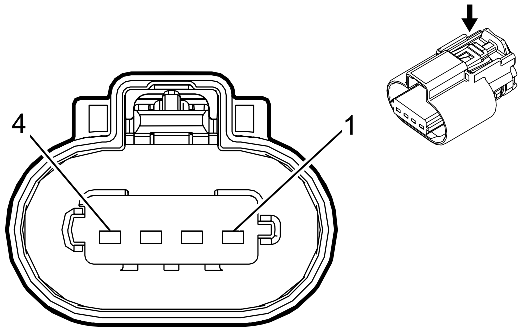
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579952	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	Not Available	Not Available

T8D Ignition Coil 4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	350	Ground	I	-
2	0.5	BK/GY	2130	Ignition Control Low Reference Bank 2	I	-
3	0.5	YE/D-BU	2124	Ignition Control (4)	I	-
4	0.75	VT/D-BU	5292	Powertrain Main Relay Fused Supply (3)	I	-

T8E Ignition Coil 5



Connector Part Information

Harness Type: Engine

OEM Connector: 13863211

Service Connector: 19301722

Description: 4-Way F 150 MX Series, Sealed (BK)

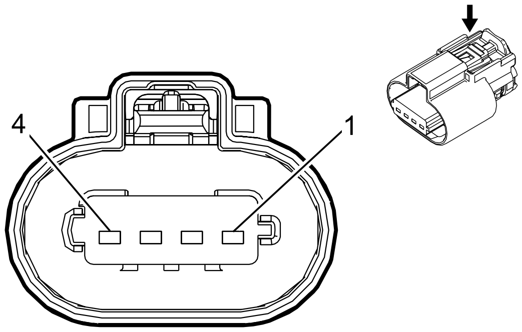
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579952	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	Not Available	Not Available

T8E Ignition Coil 5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	350	Ground	I	-
2	0.5	BK/D-BU	2129	Ignition Control Low Reference Bank 1	I	-
3	0.5	D-BU/GY	2125	Ignition Control (5)	I	-
4	0.75	VT/D-BU	5291	Powertrain Main Relay Fused Supply (2)	I	-

T8F Ignition Coil 6



Connector Part Information

Harness Type: Engine

OEM Connector: 13863211

Service Connector: 19301722

Description: 4-Way F 150 MX Series, Sealed (BK)

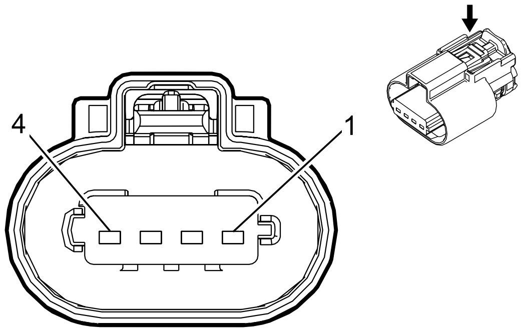
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579952	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	Not Available	Not Available

T8F Ignition Coil 6

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	350	Ground	I	-
2	0.5	BK/GY	2130	Ignition Control Low Reference Bank 2	I	-
3	0.5	BN/D-BU	2126	Ignition Control (6)	I	-
4	0.75	VT/D-BU	5292	Powertrain Main Relay Fused Supply (3)	I	-

T8G Ignition Coil 7



Connector Part Information

Harness Type: Engine

OEM Connector: 13863211

Service Connector: 19301722

Description: 4-Way F 150 MX Series, Sealed (BK)

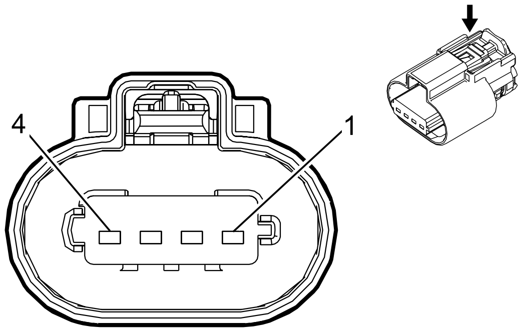
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579952	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	Not Available	Not Available

T8G Ignition Coil 7

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	350	Ground	I	-
2	0.5	BK/D-BU	2129	Ignition Control Low Reference Bank 1	I	-
3	0.5	L-GN/GY	2127	Ignition Control (7)	I	-
4	0.75	VT/D-BU	5291	Powertrain Main Relay Fused Supply (2)	I	-

T8H Ignition Coil 8



Connector Part Information

Harness Type: Engine

OEM Connector: 13863211

Service Connector: 19301722

Description: 4-Way F 150 MX Series, Sealed (BK)

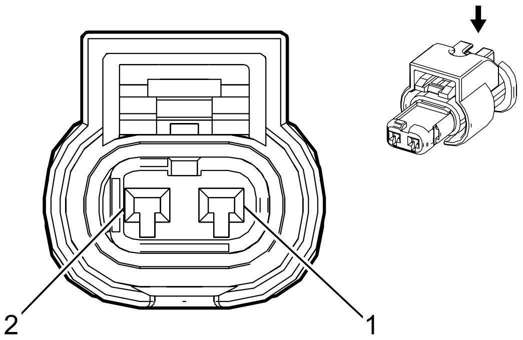
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579952	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	Not Available	Not Available

T8H Ignition Coil 8

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	350	Ground	I	-
2	0.5	BK/GY	2130	Ignition Control Low Reference Bank 2	I	-
3	0.5	VT/WH	2128	Ignition Control (8)	I	-
4	0.75	VT/D-BU	5292	Powertrain Main Relay Fused Supply (3)	I	-

T10E Keyless Entry Antenna - Rear Compartment (ATH with BTM)



Connector Part Information

Harness Type: Body

OEM Connector: 13761653

Service Connector: 13585623

Description: 2-Way F 1.2 MCP Series, Sealed (BK with NA Inner Connector)

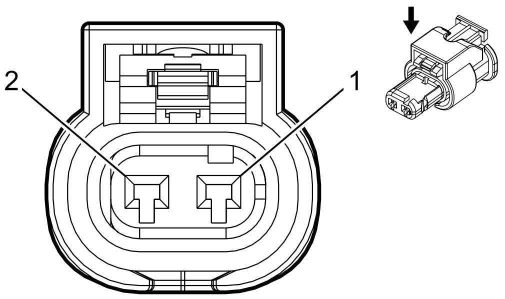
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13587557	J-35616-16 (L-GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

T10E Keyless Entry Antenna - Rear Compartment (ATH with BTM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/L-GN	3556	Passive Start Interior Antenna 3 Signal Hi	I	-
2	0.35	L-GN	3557	Passive Start Interior Antenna 3 Signal Lo	I	-

T10G Keyless Entry Antenna - Rear Fascia (ATH with BTM)



Connector Part Information

Harness Type: Rear Bumper

OEM Connector: 13627836

Service Connector: No SDC/FSU

Description: 2-Way F 1.2 MCP Series, Sealed (BK)

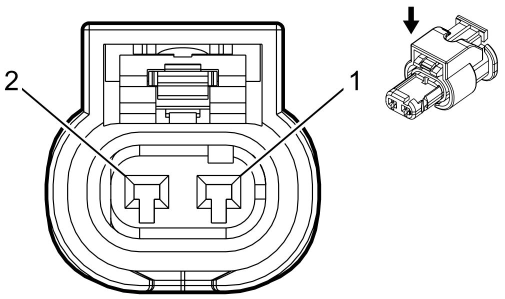
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13587558	J-35616-64B (L-BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

T10G Keyless Entry Antenna - Rear Fascia (ATH with BTM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/L-GN	3568	Passive Entry Rear Closure Antenna Signal Hi	I	-
2	0.5	L-GN/GY	3569	Passive Entry Rear Closure Antenna Signal Lo	I	-

T10J Keyless Entry Antenna - Center Console Front (ATH with BTM)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13627836

Service Connector: No SDC/FSU

Description: 2-Way F 1.2 MCP Series, Sealed (BK)

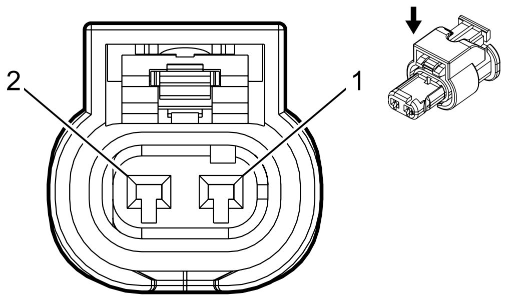
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13587557	J-35616-16 (L-GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

T10J Keyless Entry Antenna - Center Console Front (ATH with BTM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BN/BK	3552	Passive Start Interior Antenna 1 Signal Hi	I	-
2	0.35	WH	3553	Passive Start Interior Antenna 1 Signal Lo	I	-

T10K Keyless Entry Antenna - Center Console Rear (ATH with BTM)



Connector Part Information

Harness Type: Floor Console

OEM Connector: 13627836

Service Connector: No SDC/FSU

Description: 2-Way F 1.2 MCP Series, Sealed (BK)

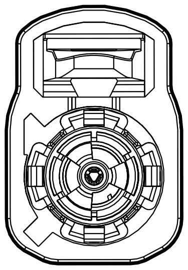
Terminal Part Information

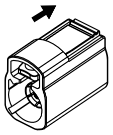
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13587557	J-35616-16 (L-GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

T10K Keyless Entry Antenna - Center Console Rear (ATH with BTM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	D-BU	3554	Passive Start Interior Antenna 2 Signal Hi	I	-
2	0.35	GY/BK	3555	Passive Start Interior Antenna 2 Signal Lo	I	-

T15 Navigation Antenna Signal Splitter X1 (IO6 with UE1)





Connector Part Information

Harness Type: Body COAX

OEM Connector: 13779898

Service Connector: Service by Cable Assembly — See Parts Catalog

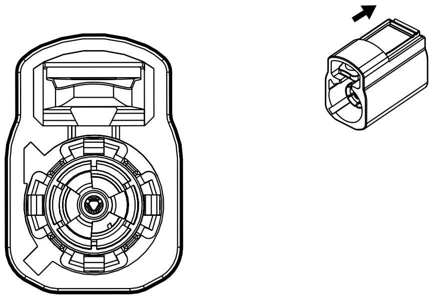
Description: 1-Way F COAX (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

T15 Navigation Antenna Signal Splitter X1 (IO6 with UE1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	COAX	—	Coaxial Antenna Cell/GPS combined Signal	I	without CV3
	—	COAX	—	Coaxial Antenna GPS Signal		CV3



Connector Part Information

Harness Type: Body COAX

OEM Connector: 13746727

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 1-Way F COAX (VT)

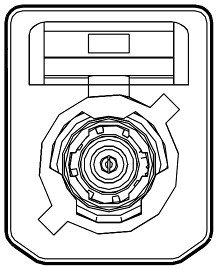
Terminal Part Information

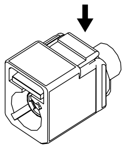
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

T15 Navigation Antenna Signal Splitter X2 (IO6 with UE1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	COAX	—	Coaxial Antenna Cell/GPS combined Signal	I	without CV3
	—	COAX	—	Coaxial Antenna GPS Signal		CV3

T15 Navigation Antenna Signal Splitter X3 (IO6 with UE1)





Connector Part Information

Harness Type: Body COAX

OEM Connector: 13822006

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 1-Way F COAX (BU)

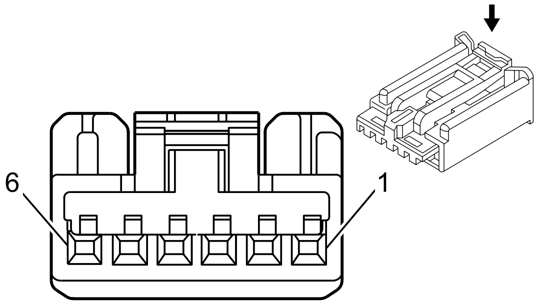
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

T15 Navigation Antenna Signal Splitter X3 (IO6 with UE1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	COAX	—	Coaxial Antenna GPS Signal	I	—

T22 Mobile Device Wireless Charger Module (DCK)



Connector Part Information

Harness Type: Floor Console

OEM Connector: 13595475

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 0.64 Series (NA)

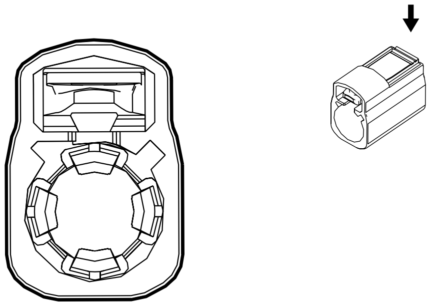
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P
II	13579945	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

T22 Mobile Device Wireless Charger Module (DCK)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	VT/YE	43	Accessory Voltage	I	-
2	0.75	BK	1050	Ground	II	-
3	0.35	L-GN	4512	Wireless Charging System Charge Indicator Control	I	-
4-6	-	-	-	Not Occupied	-	-

T23 Radio Antenna Amplifier X1



Connector Part Information

Harness Type: Body COAX

OEM Connector: 13746740

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 1-Way F COAX (BK)

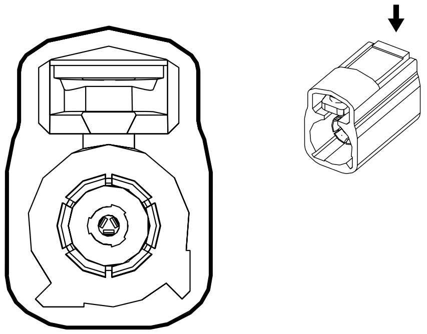
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

T23 Radio Antenna Amplifier X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	COAX	—	Antenna RF Signal	I	—

T23 Radio Antenna Amplifier X4



Connector Part Information

Harness Type: Body COAX

OEM Connector: 13847000

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 1-Way F COAX (OG)

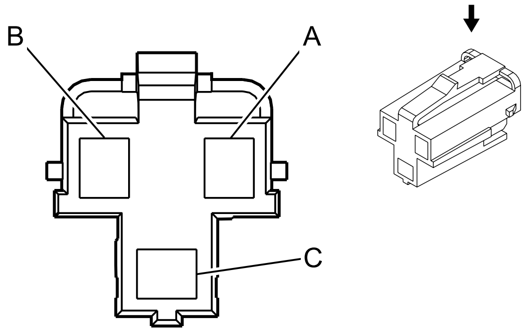
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

T23 Radio Antenna Amplifier X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	COAX	—	Antenna RF Signal	I	—

X80E Accessory Power Receptacle - Center Seat (AZ3)



Connector Part Information

Harness Type: Center Seat

OEM Connector: 12176836

Service Connector: 19257374

Description: 3-Way F 280 Metri Pack Series (GY)

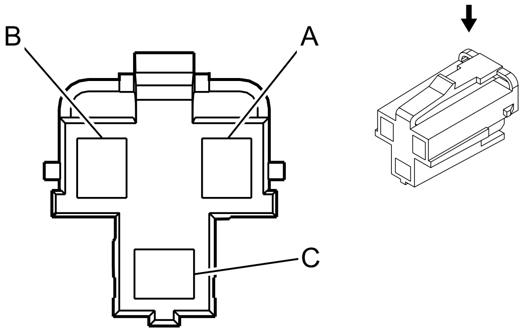
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-12A	12191475	1	4	G

X80E Accessory Power Receptacle - Center Seat (AZ3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	VT/YE	143	Accessory Voltage	I	
B	-	-	-	Not Occupied	-	-
C	1.5	BK	1250	Ground	I	-

X80D Accessory Power Receptacle - Center Console Compartment (D07)



Connector Part Information

Harness Type: Floor Console

OEM Connector: 12176836

Service Connector: 19257374

Description: 3-Way F 280 Metri Pack Series (GY)

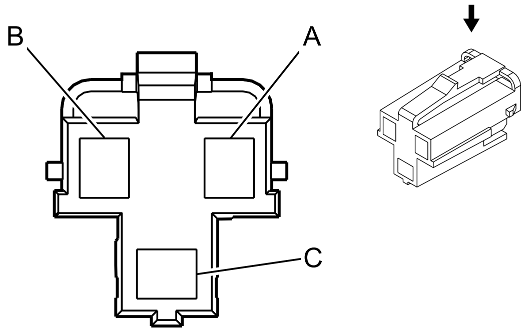
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-12A	12191475	1	4	G

X80D Accessory Power Receptacle - Center Console Compartment (D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	VT/YE	143	Accessory Voltage	I	
B	-	-	-	Not Occupied	-	-
C	1.5	BK	1050	Ground	I	-

X80D Accessory Power Receptacle - Center Console Compartment (AZ3)



Connector Part Information

Harness Type: Center Seat

OEM Connector: 12176836

Service Connector: 19257374

Description: 3-Way F 280 Metri Pack Series (GY)

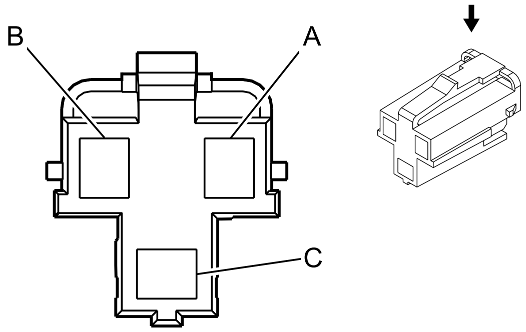
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-12A	12191475	1	4	G

X80D Accessory Power Receptacle - Center Console Compartment (AZ3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	VT/YE	243	Accessory Voltage	I	
B	-	-	-	Not Occupied	-	-
C	1.5	BK	1250	Ground	I	-

X80G Accessory Power Receptacle - Instrument Panel (D07)



Connector Part Information

Harness Type: Floor Console

OEM Connector: 12176836

Service Connector: 19257374

Description: 3-Way F 280 Metri Pack Series (GY)

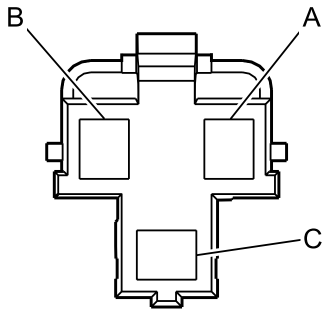
Terminal Part Information

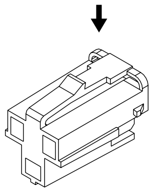
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-12A	12191475	1	4	G

X80G Accessory Power Receptacle - Instrument Panel (D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	RD/WH	1040	Battery Positive Voltage	I	-
B	-	-	-	Not Occupied	-	-
C	1.5	BK	1050	Ground	I	-

X80G Accessory Power Receptacle - Instrument Panel (AZ3)





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12176836

Service Connector: 19257374

Description: 3-Way F 280 Metri Pack Series (GY)

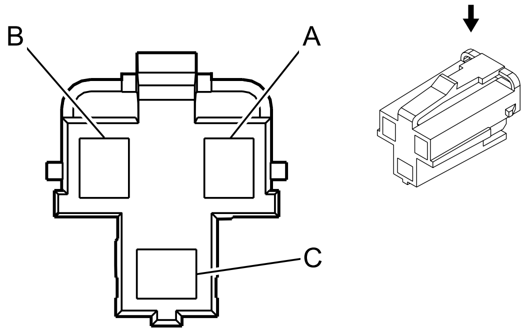
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-12A	12191475	1	4	G

X80G Accessory Power Receptacle - Instrument Panel (AZ3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	RD/BN	4240	Battery Positive Voltage	I	-
B	-	-	-	Not Occupied	-	-
C	1.5	BK	1050	Ground	I	-

X80L Accessory Power Receptacle – Instrument Panel (D07)



Connector Part Information

Harness Type: Floor Console

OEM Connector: 12176836

Service Connector: 19257374

Description: 3-Way F 280 Metri Pack Series (GY)

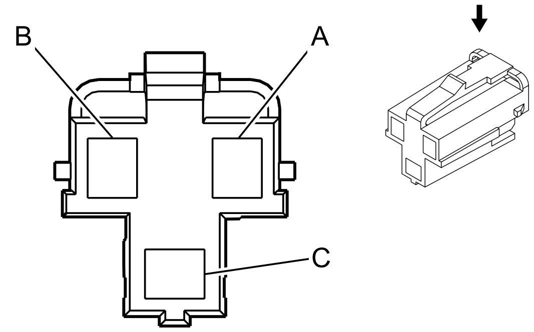
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-12A	12191475	1	4	G

X80L Accessory Power Receptacle – Instrument Panel (D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	VT/YE	243	Accessory Voltage	I	
B	-	-	-	Not Occupied	-	-
C	1.5	BK	1050	Ground	I	-

X80RL Accessory Power Receptacle - Rear Compartment Left



Connector Part Information

Harness Type: Body

OEM Connector: 12176836

Service Connector: 19257374

Description: 3-Way F 280 Metri Pack Series (GY)

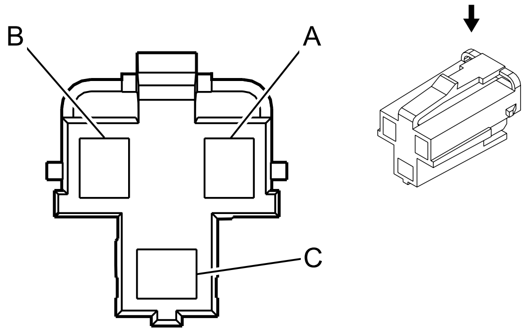
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579957	J-35616-4A (PU)	J-38125-553	12110842	4	C	A

X80RL Accessory Power Receptacle - Rear Compartment Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	RD/D-BU	6040	Battery Positive Voltage	I	-
B	-	-	-	Not Occupied	-	-
C	1.5	BK	1150	Ground	I	-

X80RR Accessory Power Receptacle - Rear Compartment Right



Connector Part Information

Harness Type: Body

OEM Connector: 12176836

Service Connector: 19257374

Description: 3-Way F 280 Metri Pack Series (GY)

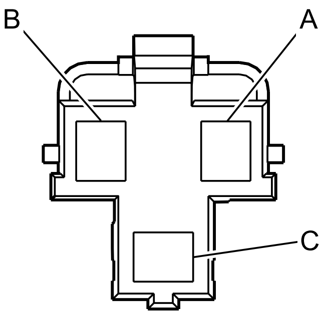
Terminal Part Information

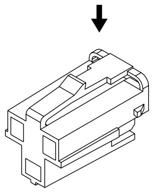
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579957	J-35616-4A (PU)	J-38125-553	12110842	4	C	A

X80RR Accessory Power Receptacle - Rear Compartment Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	RD/D-BU	6040	Battery Positive Voltage	I	-
B	-	-	-	Not Occupied	-	-
C	1.5	BK	1450	Ground	I	-

X80G Accessory Power Receptacle - Instrument Panel (AZ3)





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12176836

Service Connector: 19257374

Description: 3-Way F 280 Metri Pack Series (GY)

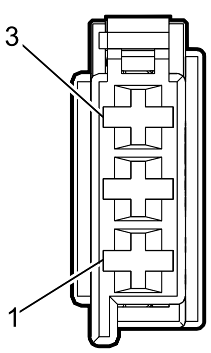
Terminal Part Information

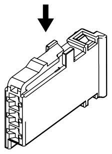
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-12A	12191475	1	4	G

X80G Accessory Power Receptacle - Instrument Panel (AZ3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	RD/BN	4240	Battery Positive Voltage	I	-
B	-	-	-	Not Occupied	-	-
C	1.5	BK	1050	Ground	I	-

X81 Accessory Power Receptacle - 110V AC X1 (KI4 with D07)





Connector Part Information

Harness Type: Floor Console

OEM Connector: 10865339

Service Connector: 93186706

Description: 3-Way F 1.6 Micro Timer Series (BK)

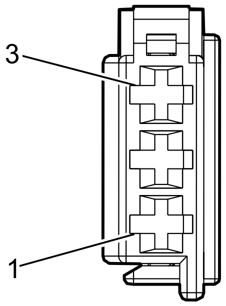
Terminal Part Information

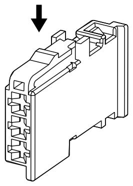
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327144	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1

X81 Accessory Power Receptacle - 110V AC X1 (KI4 with D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BN	300	Run Ignition 3 Voltage	I	-
2	-	-	-	Not Occupied	-	-
3	0.75	BK	5683	120 VAC Phase A	I	-

X81 Accessory Power Receptacle - 110V AC X2 (KI4 with D07)





Connector Part Information

Harness Type: Floor Console

OEM Connector: 13648774

Service Connector: 13583924

Description: 3-Way F 1.6 Timer Series, Sealed (GY)

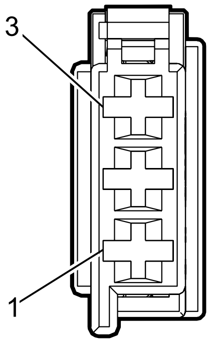
Terminal Part Information

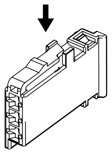
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575760	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1
II	13327144	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1
III	13575539	J-35616-14 (GN)	J-38125-560	962943-5	16	E	A

X81 Accessory Power Receptacle - 110V AC X2 (KI4 with D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	D-BU/BN	6807	DC To AC Inverter Control	I	-
2	-	-	-	Not Occupied	-	-
3	0.75	RD	5684	120 VAC Phase B	II	-

X81 Accessory Power Receptacle - 110V AC X1 (KI4 with AZ3)





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 10865339

Service Connector: 93186706

Description: 3-Way F 1.6 Micro Timer Series (BK)

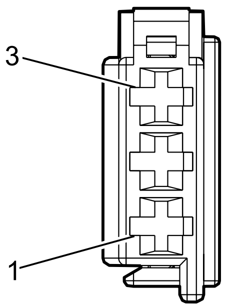
Terminal Part Information

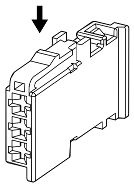
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327144	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1
II	13575551	J-35616-14 (GN)	J-38125-560	962943-5	16	Not Available	Not Available

X81 Accessory Power Receptacle - 110V AC X1 (KI4 with AZ3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BN	300	Run Ignition 3 Voltage	I	-
2	-	-	-	Not Occupied	-	-
3	1.5	BK	5683	120 VAC Phase A	II	-

X81 Accessory Power Receptacle - 110V AC X2 (KI4 with AZ3)





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13648774

Service Connector: 13583924

Description: 3-Way F 1.6 Timer Series, Sealed (GY)

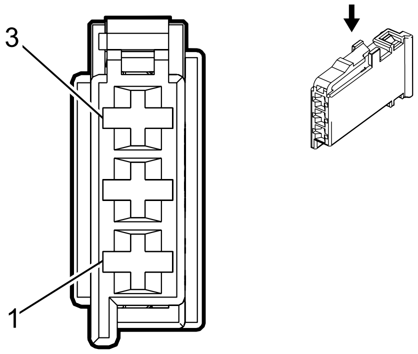
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575537	J-35616-14 (GN)	J-38125-560	962943-5	16	Not Available	Not Available
II	13575551	J-35616-14 (GN)	J-38125-560	962943-5	16	Not Available	Not Available

X81 Accessory Power Receptacle - 110V AC X2 (KI4 with AZ3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	D-BU/BN	6807	DC To AC Inverter Control	I	-
2	-	-	-	Not Occupied	-	-
3	1.5	RD	5684	120 VAC Phase B	II	-

X81B Accessory Power Receptacle - 220V AC X1 (KI5 with D07)



Connector Part Information

Harness Type: Floor Console

OEM Connector: 10865339

Service Connector: 93186706

Description: 3-Way F 1.6 Micro Timer Series (BK)

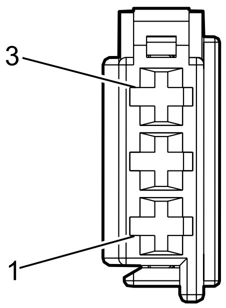
Terminal Part Information

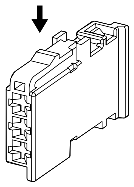
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327144	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1

X81B Accessory Power Receptacle - 220V AC X1 (KI5 with D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BN	300	Run Ignition 3 Voltage	I	-
2	-	-	-	Not Occupied	-	-
3	0.75	BK	5683	120 VAC Phase A	I	-

X81B Accessory Power Receptacle - 220V AC X2 (KI5 with D07)





Connector Part Information

Harness Type: Floor Console

OEM Connector: 13648774

Service Connector: 13583924

Description: 3-Way F 1.6 Timer Series, Sealed (GY)

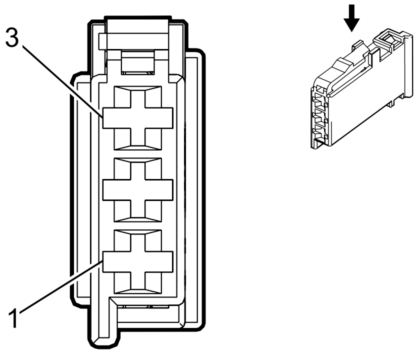
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575760	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1
II	13327144	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1
III	13575539	J-35616-14 (GN)	J-38125-560	962943-5	16	E	A

X81B Accessory Power Receptacle - 220V AC X2 (KI5 with D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	D-BU/BN	6807	DC To AC Inverter Control	I	-
2	-	-	-	Not Occupied	-	-
3	0.75	RD	5684	120 VAC Phase B	II	-

X81B Accessory Power Receptacle - 220V AC X1 (KI5 with AZ3)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 10865339

Service Connector: 93186706

Description: 3-Way F 1.6 Micro Timer Series (BK)

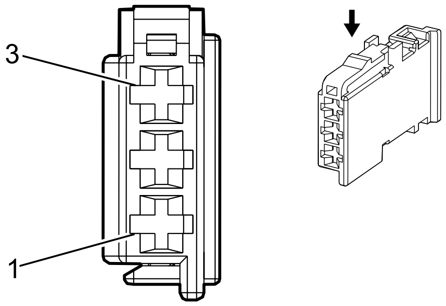
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327144	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1
II	13575551	J-35616-14 (GN)	J-38125-560	962943-5	16	Not Available	Not Available

X81B Accessory Power Receptacle - 220V AC X1 (KI5 with AZ3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BN	300	Run Ignition 3 Voltage	I	-
2	-	-	-	Not Occupied	-	-
3	1.5	BK	5683	120 VAC Phase A	II	-

X81B Accessory Power Receptacle - 220V AC X2 (KI5 with AZ3)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13648774

Service Connector: 13583924

Description: 3-Way F 1.6 Timer Series, Sealed (GY)

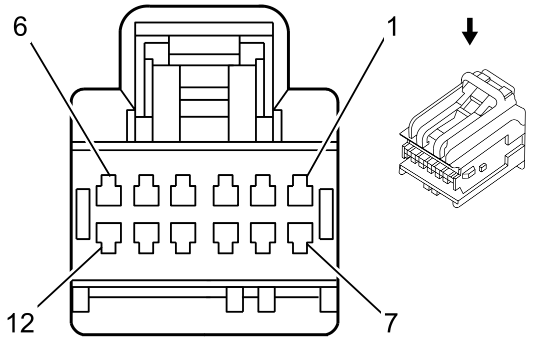
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575537	J-35616-14 (GN)	J-38125-560	962943-5	16	Not Available	Not Available
II	13575551	J-35616-14 (GN)	J-38125-560	962943-5	16	Not Available	Not Available

X81B Accessory Power Receptacle - 220V AC X2 (KI5 with AZ3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	D-BU/BN	6807	DC To AC Inverter Control	I	-
2	-	-	-	Not Occupied	-	-
3	1.5	RD	5684	120 VAC Phase B	II	-

X82 Audio/Video Input Adapter (U42 with D07)



Connector Part Information

Harness Type: Floor Console

OEM Connector: 13551678

Service Connector: 89047364

Description: 12-Way F 0.64 Series (BK)

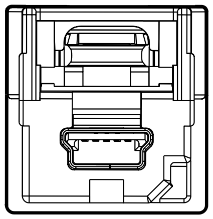
Terminal Part Information

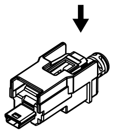
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
II	13579945	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

X82 Audio/Video Input Adapter (U42 with D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	2550	Ground	I	-
2	-	-	-	Not Occupied	-	-
3	0.35	L-GN/WH	3355	Left Rear Seat Audio Headphone Signal	I	-
4	0.35	WH	2058	Right Auxiliary Audio Signal (1)	I	-
5	0.35	YE	2059	Left Auxiliary Audio Signal (1)	I	-
6	0.35	YE	2056	Auxiliary Video High Signal	I	-
7	0.75	RD/VT	340	Battery Positive Voltage	II	-
8	-	-	-	Not Occupied	-	-
9	0.35	BN/GY	3357	Right Rear Seat Audio Headphone Signal	I	-
10	0.35	D-BU/VT	3356	Rear Seat Audio Headphone Common Signal	I	-
11	0.35	BN	3374	Auxiliary Audio Common Signal (2)	I	-
12	0.5	Bare	2057	Auxiliary Video Low Signal	I	-

X82 Audio/Video Input Adapter (U42 with D07)





Connector Part Information

Harness Type: Floor Console USB

OEM Connector: 13868727

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 5-Way M USB Type (BK)

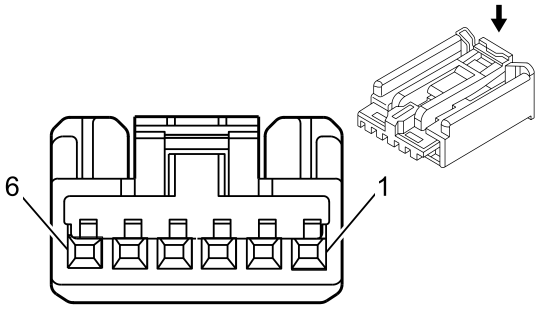
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X82 Audio/Video Input Adapter (U42 with D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	USB	—	USB Serial Data	I	—

X83 Auxiliary Audio Input X1



Connector Part Information

Harness Type: Floor Console

OEM Connector: 13595476

Service Connector: 19167753

Description: 6-Way F 0.64 Kaizen Series (BK)

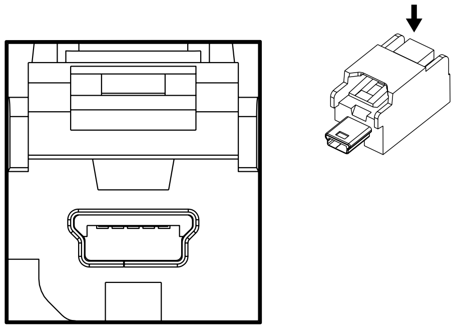
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
II	13579945	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

X83 Auxiliary Audio Input X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY	5839	Left Auxiliary Audio Signal (2)	I	-
2	0.35	L-GN	5841	Right Auxiliary Audio Signal (2)	I	-
3	0.35	VT	5843	Auxiliary Audio Common Signal	I	-
4	0.35	BK	2550	Ground	I	-
5	0.35	D-BU	2060	Auxiliary Detection Signal	I	-
6	0.75	RD/VT	340	Battery Positive Voltage	II	-

X83 Auxiliary Audio Input X2 (AZ3)



Connector Part Information

Harness Type: Seat USB

OEM Connector: 13581339

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 5-Way F USB Type (GY)

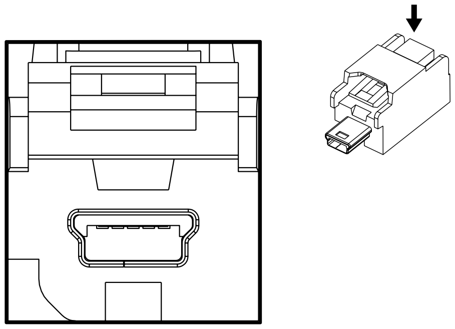
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X83 Auxiliary Audio Input X2 (AZ3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	USB	—	USB Serial Data	I	—

X83 Auxiliary Audio Input X2 (D07)



Connector Part Information

Harness Type: Floor Console Jumper USB

OEM Connector: 13868840

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 5-Way F USB Type (GY)

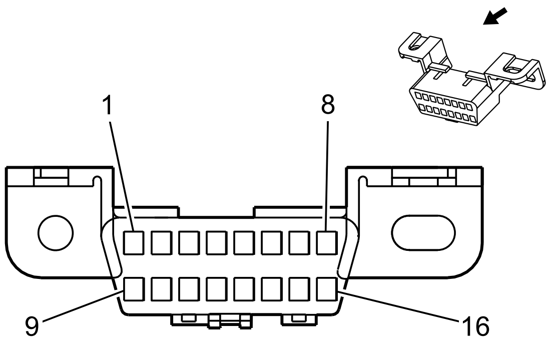
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X83 Auxiliary Audio Input X2 (D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	USB	—	USB Serial Data	I	—

X84 Data Link Connector



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12110250

Service Connector: 12110250

Description: 16-Way F 150 Metri Pack Series (BK)

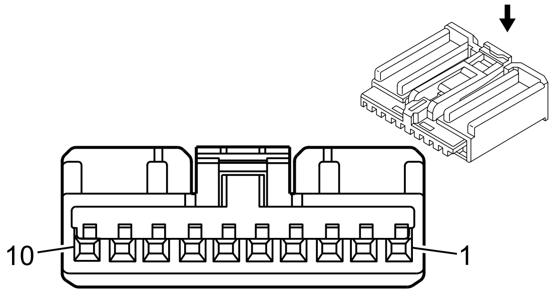
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327106	J-35616-14 (GN)	J-38125-12A	12129484	19	E	C
II	13575725	J-35616-14 (GN)	J-38125-12A	12129484	19	E	A

X84 Data Link Connector

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	-
2	-	-	-	Not Occupied	-	-
3	0.5	D-BU/VT	3813	High Speed GMLAN Serial Data (+) (4)	I	-
4	1	BK	1050	Ground	II	-
5	0.75	BK/WH	1851	Signal Ground	II	-
6	0.5	D-BU	2500	High Speed GMLAN Serial Data (+) (1)	I	-
7-10	-	-	-	Not Occupied	-	-
11	0.5	WH	3811	High Speed GMLAN Serial Data (-) (4)	I	-
12	0.5	D-BU/YE	6105	High Speed GMLAN Serial Data (+) (2)	I	-
13	0.5	WH	6106	High Speed GMLAN Serial Data (-) (2)	I	-
14	0.5	WH	2501	High Speed GMLAN Serial Data (-) (1)	I	-
15	-	-	-	Not Occupied	-	-
16	0.5	RD/WH	640	Battery Positive Voltage	I	-

X85 Steering Wheel Air Bag Coil X1



Connector Part Information

Harness Type: Steering Column

OEM Connector: AIT2PB-10-1AK

Service Connector: 13576634

Description: 10-Way F 0.64 Kaizen Series (BK)

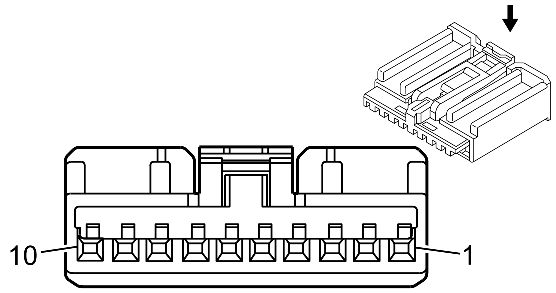
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

X85 Steering Wheel Air Bag Coil X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/YE	3040	Battery Positive Voltage	I	-
2	0.5	D-GN	3894	Linear Interconnect Network Bus 12	I	-
3	-	-	-	Not Occupied	-	-
4	0.5	GY/GN	5737	Adaptive Cruise Control Gap Up/Down Switch Signal	I	K34/K59/KSG/UEU
5	0.5	BN	6136	LED Backlight Dimming Control	I	-
6	0.5	WH/RD	1444	12 Volt Reference	I	K34
7	-	-	-	Not Occupied	-	-
8	0.5	BN/GN	1884	Cruise Control Set/Coast/Resume/Accelerate Switch Signal	I	K34
9	0.5	BK	1050	Ground	I	-
10	0.5	D-GN/WH	3287	Horn Switch Signal	I	-

X85 Steering Wheel Air Bag Coil X2



Connector Part Information

Harness Type: Steering Wheel

OEM Connector: AIT2PB-10-1AK

Service Connector: 13576634

Description: 10-Way F 0.64 Kaizen Series (BK)

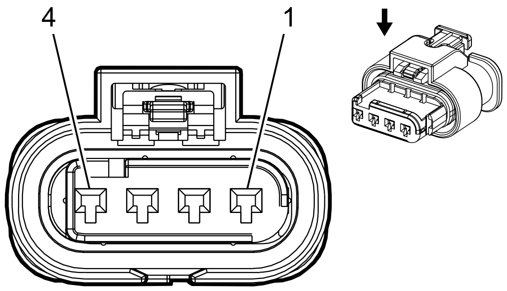
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

X85 Steering Wheel Air Bag Coil X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	RD	3287	Horn Switch Signal	I	-
2	0.35	BK	1050	Ground	I	-
3	0.35	BN/YE	1884	Cruise Control Set/Coast/Resume/Accelerate Switch Signal	I	K34
4	-	-	-	Not Occupied	-	-
5	0.35	WH	1444	12 Volt Reference	I	K34
6	0.35	YE	6136	LED Backlight Dimming Control	I	without UK3
7	0.35	GY/RD	5737	Adaptive Cruise Control Gap Up/Down Switch Signal	I	K34/K59/KSG/UEU
8	-	-	-	Not Occupied	-	-
9	0.35	D-GN	3894	Linear Interconnect Network Bus 12	I	-
10	0.35	RD/YE	3040	Battery Positive Voltage	I	-

X85 Steering Wheel Air Bag Coil X3



Connector Part Information

Harness Type: Body

OEM Connector: 13854531

Service Connector: 13586137

Description: 4-Way F 1.2 Series, Sealed (YE)

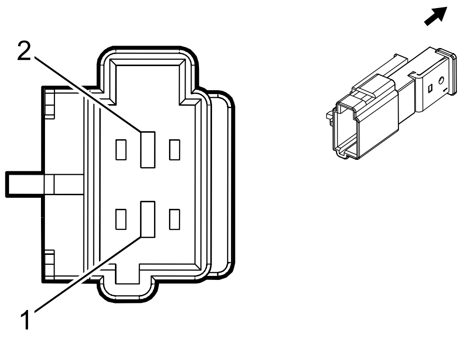
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-16 (L-GN)	J-38125-22	Not Available	Not Available	Not Available	Not Available

X85 Steering Wheel Air Bag Coil X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	OG/VT	3021	Steering Wheel Module Stage 1 High Control	I	-
2	0.35	BN/OG	3020	Steering Wheel Module Stage 1 Low Control	I	-
3	0.35	OG/L-GN	3023	Steering Wheel Module Stage 2 High Control	I	-
4	0.35	WH/OG	3022	Steering Wheel Module Stage 2 Low Control	I	-

X85 Steering Wheel Air Bag Coil X4 (UVD)



Connector Part Information

Harness Type: Steering Wheel Air Bag Coil

OEM Connector: 19179872

Service Connector: 13574780

Description: 2–Way M 1.6 Timer Series (BK)

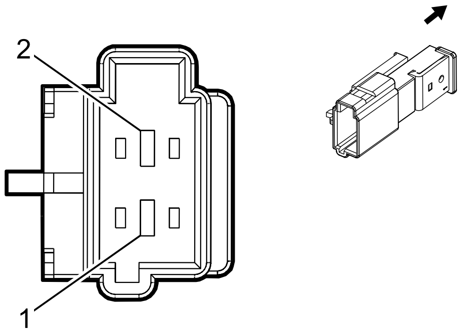
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X85 Steering Wheel Air Bag Coil X4 (UVD)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/WH	1139	Run/Crank Ignition 1 Voltage	I	—
2	0.5	BK	1050	Ground	I	—

X85 Steering Wheel Air Bag Coil X5 (UVD)



Connector Part Information

Harness Type: Steering Wheel Air Bag Coil

OEM Connector: 19179872

Service Connector: 13574780

Description: 2–Way M 1.6 Timer Series (BK)

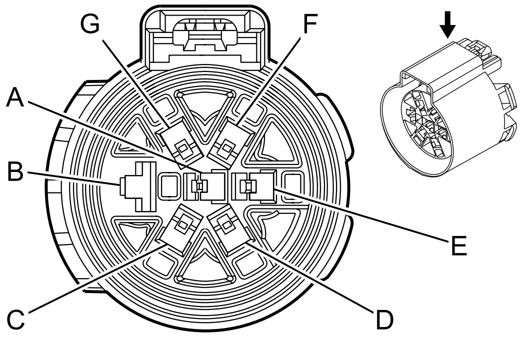
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X85 Steering Wheel Air Bag Coil X5 (UVD)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	RD	1139	Run/Crank Ignition 1 Voltage	I	X88 or Z88
	0.5	VT/WH	1139	Run/Crank Ignition 1 Voltage	I	Z75
2	0.75	BK	1050	Ground	I	X88 or Z88
	0.5	BK	1050	Ground	I	Z75

X88 Trailer Connector



Connector Part Information

Harness Type: Chassis

OEM Connector: 13857223

Service Connector: 13583927

Description: 7-Way F 280 Metri Pack, 630 Series, Sealed (BK)

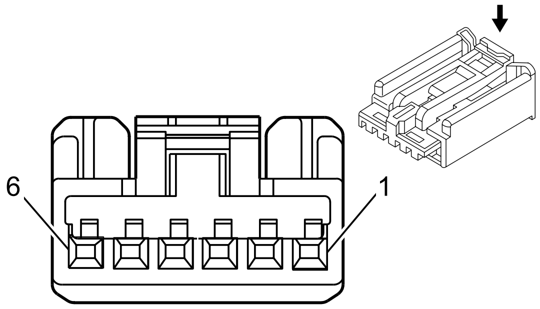
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-553	12110847	4	C	5
II	Pending	J-35616-42 (RD)	J-38125-11A	15305232	23	B	3
III	Pending	J-35616-4A (PU)	J-38125-553	12110845	4	F	5
IV	Pending	J-35616-4A (PU)	J-38125-553	12110853	4	F	5
V	Pending	J-35616-4A (PU)	J-38125-553	12110845	4	Not Available	Not Available

X88 Trailer Connector

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	WH/L-GN	1624	Trailer Backup Lamp Supply Voltage	I	-
B	5	WH	22	Trailer Ground	II	-
C	2.5	D-BU	47	Trailer Auxiliary Supply Voltage	IV	-
D	0.75	L-GN/VT	1619	Right Rear Trailer Stop/Turn Lamp Supply Voltage	I	-
E	4	RD/L-GN	742	Battery Positive Voltage	IV	-
F	1.5	GY/BN	2109	Trailer Park Lamp Supply Voltage	V	-
G	0.75	YE/GY	1618	Left Rear Trailer Stop/Turn Lamp Supply Voltage	I	-

X92 USB Receptacle X1 (D07 with IO5 or IO6)



Connector Part Information

Harness Type: Floor Console

OEM Connector: 13595476

Service Connector: 19167753

Description: 6-Way F 0.64 Kaizen Series (BK)

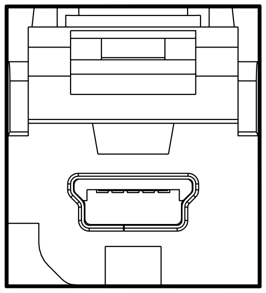
Terminal Part Information

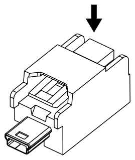
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
II	13579945	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

X92 USB Receptacle X1 (D07 with IO5 or IO6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-3	-	-	-	Not Occupied	-	-
4	0.35	BK	2550	Ground	I	-
5	-	-	-	Not Occupied	-	-
6	0.75	RD/VT	340	Battery Positive Voltage	II	-

X92 USB Receptacle X2 (D07 with IO5 or IO6)





Connector Part Information

Harness Type: Floor Console Jumper USB

OEM Connector: 13868840

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 5-Way F USB Type (GY)

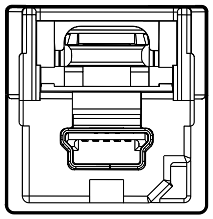
Terminal Part Information

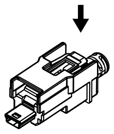
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X92 USB Receptacle X2 (D07 with IO5 or IO6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	USB	—	USB Serial Data	I	—

X92 USB Receptacle X3 (D07 with IO5 or IO6)





Connector Part Information

Harness Type: Floor Console Jumper USB

OEM Connector: 13868727

Service Connector: Service by Cable Assembly — See Parts Catalog

Description: 5-Way F USB Type (BK)

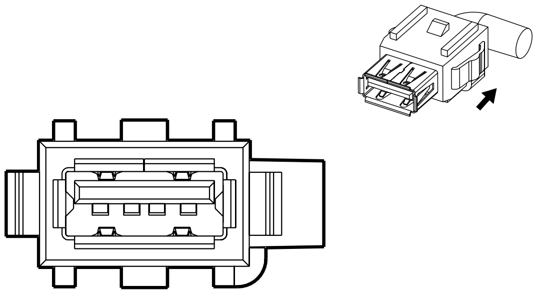
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X92 USB Receptacle X3 (D07 with IO5 or IO6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	USB	—	USB Serial Data	I	—

X92A USB Receptacle - Instrument Panel Compartment (IO5 or IO6)



Connector Part Information

Harness Type: Instrument Panel USB

OEM Connector: 13890965

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 5-Way F 2.0 Standard A USB Type (BK)

Terminal Part Information

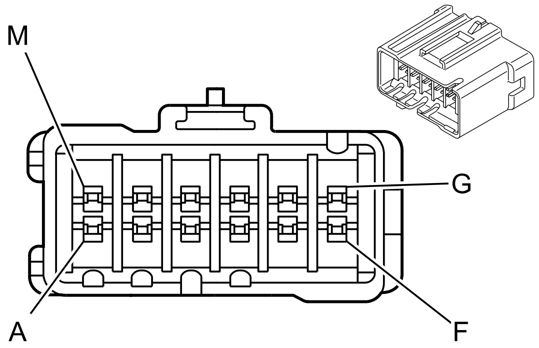
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X92A USB Receptacle - Instrument Panel Compartment (IO5 or IO6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	USB	—	USB Serial Data	I	—

Splice Pack Connector End Views

JX200 Splice Pack - Instrument Panel



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15305291

Service Connector: 15305291

Description: 12-Way F 280 Metri Pack Series (BK)

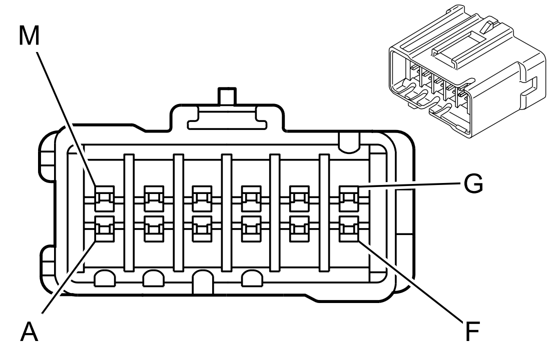
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575719	J-35616-4A (PU)	J-38125-553	12110844	4	E	A
II	13575719	J-35616-4A (PU)	J-38125-553	12110844	4	E	4

JX200 Splice Pack - Instrument Panel

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	-
B	0.35	L-GN	5060	Low Speed GMLAN Serial Data	II	-
C	-	-	-	Not Occupied	-	-
D	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	-
E	0.35	L-GN	5060	Low Speed GMLAN Serial Data	II	-
F	-	-	-	Not Occupied	-	-
G	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	-
H	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	-
J	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	-
K	0.35	L-GN	5060	Low Speed GMLAN Serial Data	II	-
L	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	-
M	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	-

JX300 Splice Pack - Body



Connector Part Information

Harness Type: Body

OEM Connector: 15305291

Service Connector: 15305291

Description: 12-Way F 280 Metri Pack Series (BK)

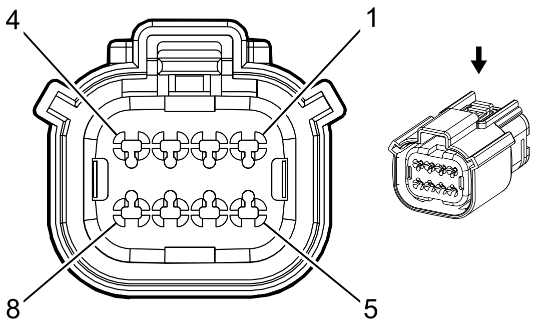
Terminal Part Information

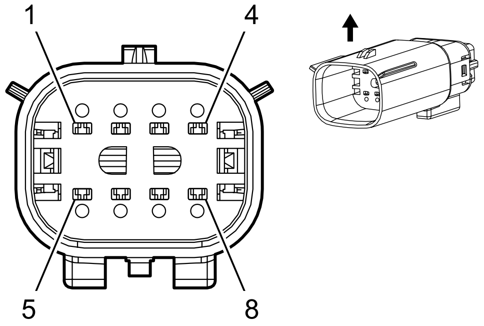
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575719	J-35616-4A (PU)	J-38125-553	12110844	4	E	A
II	13575719	J-35616-4A (PU)	J-38125-553	12110844	4	E	4
III	13575719	J-35616-4A (PU)	J-38125-553	12110844	4	C	A

JX300 Splice Pack - Body

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	-
B	0.35	L-GN	5060	Low Speed GMLAN Serial Data	II	-
C	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	-
D	0.35	L-GN	5060	Low Speed GMLAN Serial Data	II	-
E	0.35	L-GN	5060	Low Speed GMLAN Serial Data	II	-
F	0.35	L-GN	5060	Low Speed GMLAN Serial Data	II	-
G	0.75 0.5	L-GN L-GN	5060 5060	Low Speed GMLAN Serial Data Low Speed GMLAN Serial Data	III	-
H	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	-
J	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	-
K	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	-
L	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	-
M	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	-

X101 Front Bumper Harness to Left Multifunction Lamp Harness (Z75)





Connector Part Information

Harness Type: Front Bumper

OEM Connector: 13654393

Service Connector: 13577527

Description: 8-Way F 1.5 Series, Sealed (BK)

Connector Part Information

Harness Type: Multifunction Lamp Harness

OEM Connector: 13503538

Service Connector: Service by Harness - See Part Catalog

Description: 8–Way M 150 MX Series, Sealed (BK)

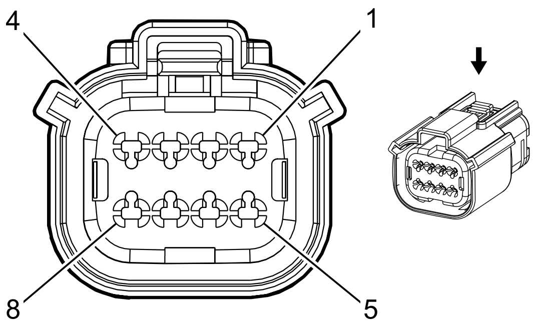
Terminal Part Information

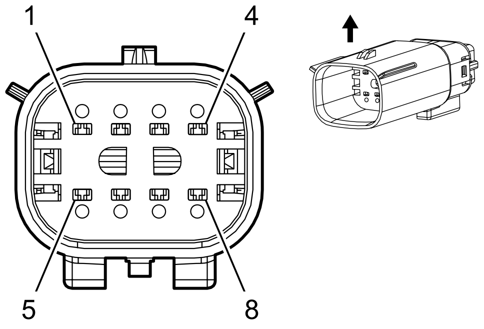
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575808	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	A/E	A/C
II	13575809	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	E	2
III	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X101 Front Bumper Harness to Left Multifunction Lamp Harness (Z75)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	BK	150	I	-	Ground	1	0.75	BK	150	III	-
2	0.75	D-BU/WH	1314	I	-	Left Front Turn Signal Lamp Supply Voltage	2	0.75	OG	1314	III	-
3	0.75	VT/GY	709	I		Left Park Lamp Supply Voltage	3	0.75	BU	709	III	-
4	0.75	GY/D-BU	7538	I	-	Left Front DRL Supply Voltage	4	0.75	PK	7538	III	-
5	0.5	BK	9001	II	-		5	0.5	BK	9001	III	-
6	0.5	YE/GY	57	II	-	Left Cornering Lamp Supply Voltage	6	0.5	GN	57	III	-
7-8	-	-	-	-	-	Not Occupied	7-8	-	-	-	-	-

X104 Front Bumper Harness to Right Multifunction Lamp Harness (Z75)





Connector Part Information

Harness Type: Front Bumper

OEM Connector: 13654393

Service Connector: 13577527

Description: 8-Way F 1.5 Series, Sealed (BK)

Connector Part Information

Harness Type: Multifunction Lamp Harness

OEM Connector: 13503538

Service Connector: Service by Harness - See Part Catalog

Description: 8–Way M 150 MX Series, Sealed (BK)

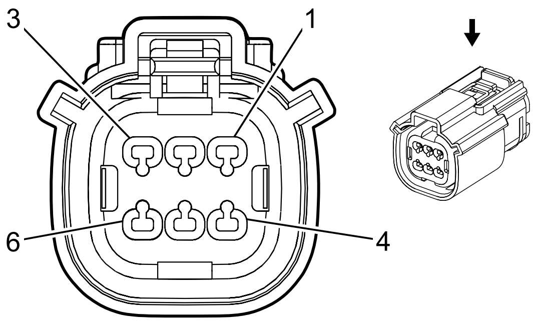
Terminal Part Information

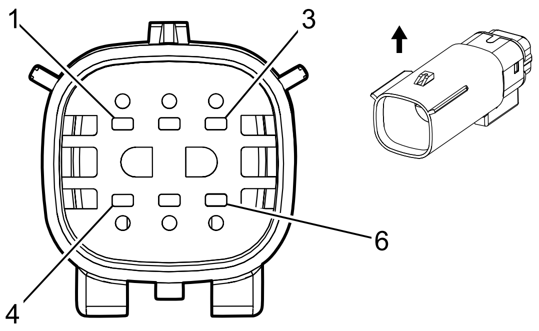
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575808	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	A/E	A/C
II	13575809	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	E	2
III	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X104 Front Bumper Harness to Right Multifunction Lamp Harness (Z75)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	BK	250	I	-	Ground	1	0.75	BK	250	III	-
2	0.75	L-GN/VT	1315	I	-	Right Front Turn Signal Lamp Supply Voltage	2	0.75	OG	1315	III	-
3	0.75	GY/BN	309	I	-	Right Park Lamp Supply Voltage	3	0.75	BU	309	III	-
4	0.75	D-BU/BN	7539	I	-	Right Front DRL Supply Voltage	4	0.75	PK	7539	III	-
5	0.5	BK	9000	II	-		5	0.5	BK	9000	III	-
6	0.5	YE/WH	58	II	-	Right Cornering Lamp Supply Voltage	6	0.5	GN	58	III	-
7-8	-	-	-	-	-	Not Occupied	7-8	-	-	-	-	-

X106 Aero Shutter Jumper Harness to Forward Lamp Harness (IK9)





Connector Part Information

Harness Type: Aero Shutter Harness

OEM Connector: 19178149

Service Connector: Service by Harness - See Part Catalog

Description: 6–Way F 150 MX Series, Sealed (BK)

Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 15457002

Service Connector: Not Available

Description: 6-Way M 150 MX Series, Sealed (BK)

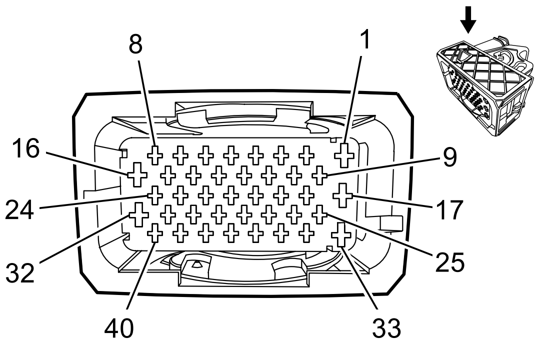
Terminal Part Information

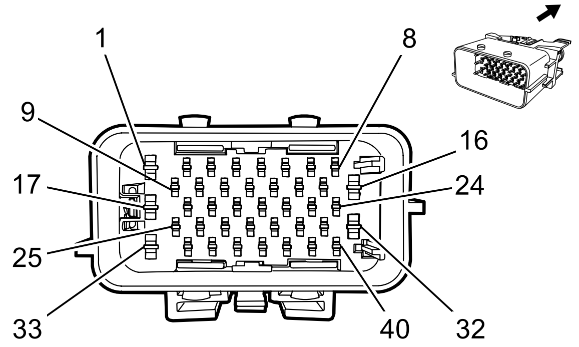
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	13587410	J-35616-3 (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available

X106 Aero Shutter Jumper Harness to Forward Lamp Harness (IK9)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	1	BK	250	I	-	Ground	1	1	BK	250	II	-
2	0.5	WH/PU	4333	I	-	Aero Shutter Actuator Supply Voltage	2	0.5	WH/PU	4333	II	-
3	0.5	BN	3891	I	-	Aero Shutter Control	3	0.5	BN	3891	II	-
4	0.5	GY	3890	I	-	Aero Shutter Control 2	4	0.5	GY	3890	II	-
5	0.5	BK/D-BU	61	I	-	Outside Ambient Temperature Sensor Low Reference	5	0.5	BK/D-BU	61	II	-
6	0.5	D-BU/GY	636	I	-	Outside Ambient Air Temperature Sensor Signal	6	0.5	D-BU/GY	636	II	-

X100 Forward Lamp Harness to Front Bumper Harness (Z75)





Connector Part Information

Harness Type: Front Bumper

OEM Connector: 13603185

Service Connector: 13576549

Description: 40-Way F 1.5, 2.8 Series, Sealed (BK)

Connector Part Information

Harness Type: Front Bumper

OEM Connector: 13603208

Service Connector: 13576551

Description: 40-Way M 1.5 DSQ, 2.8 ATS Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1
II	13588058	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1
III	13327190	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	E	1
IV	13582344	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	2	4
V	Not Available	J-35616-35 (VT)	J-38125-36	4-964286-1	16	E	1

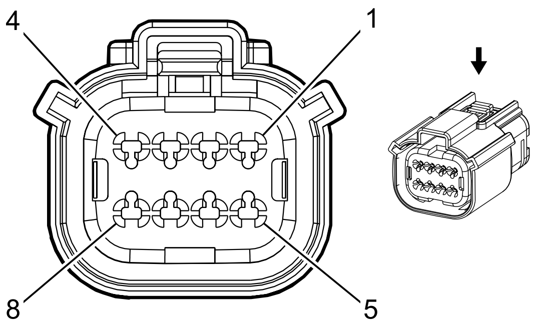
X100 Forward Lamp Harness to Front Bumper Harness (Z75)

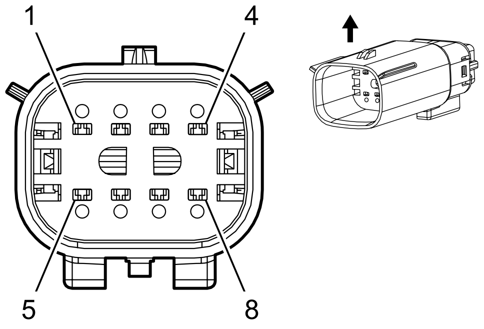
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	-	-	-	-	Not Occupied	1	-	-	-	-	-
2	0.5	YE/GY	57	I	-	Left Cornering Lamp Supply Voltage	2	0.5	YE/GY	57	III	-
3	0.5	YE/WH	58	I	-	Right Cornering Lamp Supply Voltage	3	0.5	YE/WH	58	III	-
4	0.5	YE/L-GN	5213	I	-	Front Parking Left/Right/Mid Sensor	4	0.5	YE/L-GN	5213	III	
5	0.5	VT/WH	5215	I	-	Front Parking Left Corner Sensor	5	0.5	VT/WH	5215	III	-
6	0.5	YE/GY	5216	I	-	Front Parking Left Mid Sensor	6	0.5	YE/GY	5216	III	-
7	0.5	WH/GY	5217	I	-	Front Parking Right Corner Sensor	7	0.5	WH/GY	5217	III	-
8	0.75	GY/D-BU	7538	I	-	Left Front DRL Supply Voltage	8	0.75	GY/D-BU	7538	III	-

						Voltage						
9	0.75	VT/GY	709	I		Left Park Lamp Supply Voltage	9	0.5	VT/GY	709	III	-
10	0.5	VT/GY	5218	I	-	Front Parking Right Mid Sensor	10	0.5	VT/GY	5218	III	-
11	0.5	BK/D-BU	5214	I	-	Front Parking Sensor Low Reference	11	0.5	BK/D-BU	5214	III	-
12	0.5	D-BU/VT	3813	I	UVZ	High Speed GMLAN Serial Data (+) (4)	12	0.5	D-BU/VT	3813	III	UVZ
13	0.5	WH	3811	I	UVZ	High Speed GMLAN Serial Data (-) (4)	13	0.5	WH	3811	III	UVZ
14	0.5	D-BU/VT	3813	I	UVZ	High Speed GMLAN Serial Data (+) (4)	14	0.5	D-BU/VT	3813	III	UVZ
15	0.5	WH	3811	I	UVZ	High Speed GMLAN Serial Data (-) (4)	15	0.5	WH	3811	III	UVZ
16–17	-	-	-	-	-	Not Occupied	16–17	-	-	-	-	-
18	0.75	D-BU/BN	7539	II	-	Right Front DRL Supply Voltage	18	0.75	D-BU/BN	7539	III	-
19	0.5	GY/VT	3808	I	UVZ	Front Object Sensor Supply Voltage (2)	19	0.5	GY/VT	3808	III	UVZ
20	-	-	-	-	-	Not Occupied	20	-	-	-	-	-
21	0.75	D-BU/WH	1314	I	-	Left Front Turn Signal Lamp Supply Voltage	21	0.75	D-BU/WH	1314	III	-
22	-	-	-	-	-	Not Occupied	22	-	-	-	-	-
23	0.75	L-GN/VT	1315	I	-	Right Front Turn Signal Lamp Supply Voltage	23	0.75	L-GN/VT	1315	III	-
24	0.75	GY/BN	309	I	-	Right Park Lamp Supply Voltage	24	0.5	GY/BN	309	III	-
25	0.75	BK	150	I	-	Ground	25	0.75	BK	150	III	-
26	0.75	BK	250	I	-	Ground	26	0.75	BK	250	III	-
27	0.35	BK/WH	2551	I	UVH	Signal Ground	27	0.5	BK/WH	2551	III	UVH
28	0.35	BK	3371	I	UVH	Video Drain Wire (2)	28	0.5	BK	3371	III	UVH
29	0.35	D-BU	3373	I	UVH	Auxiliary Video High Signal (2)	29	0.5	D-BU	3373	III	UVH
30	0.35	GY	3372	I	UVH	Auxiliary Video Low Signal (2)	30	0.5	GY	3372	III	UVH
31	0.35	WH/BN	6201	I	UVH	Camera Supply Voltage	31	0.5	WH/BN	6201	III	UVH
32-33	-	-	-	-	-	Not Occupied	32-33	-	-	-	-	-
34	0.5	BK	9001	I	-		34	0.5	BK	9001	III	-

35	0.5	BK	9000	I	-		35	0.5	BK	9000	III	-
36-40	-	-	-	-	-	Not Occupied	36-40	-	-	-	-	-

X110 Forward Lamp Harness to Left Headlamp Harness (X88 or Z88)





Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 13654393

Service Connector: 13577527

Description: 8-Way F 1.5 Series, Sealed (BK)

Connector Part Information

Harness Type: Left Headlamp

OEM Connector: 13503538

Service Connector: Service by Component - See Part Catalog

Description: 8–Way M 1.5 Series, Sealed (BK)

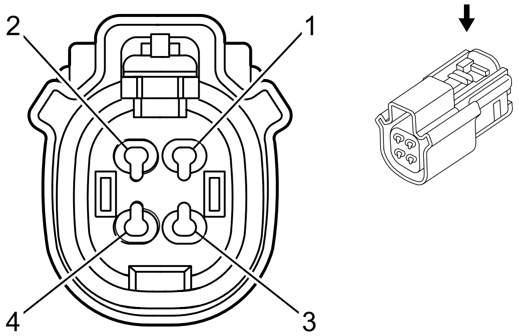
Terminal Part Information

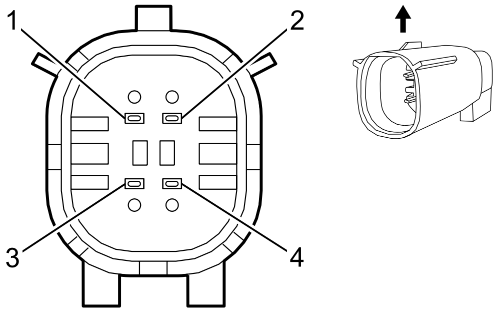
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575808	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	A/E	A/C
II	13575809	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	E	2
III	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X110 Forward Lamp Harness to Left Headlamp Harness (X88 or Z88)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	BK	150	I	-	Ground	1	0.75	BK	150	III	-
2	0.75	YE	712	I	-	Left Headlamp Low Beam Supply Voltage	2	0.75	PU	712	III	-
3	0.75	WH	711	II		Left Headlamp High Beam Supply Voltage	3	0.5	WH	711	III	-
4	0.75	BK	150	I	-	Ground	4	0.75	BK	150	III	-
5	0.75	D-BU/WH	1314	I	-	Left Front Turn Signal Lamp Supply Voltage	5	0.75	RD	1314	III	-
6	0.75 0.5	GY/D-BU VT/GY	7538 709	I	Y91 without Y91	Left Front DRL Supply Voltage Left Park Lamp Supply Voltage	6	0.75 0.75	GN GN	7538 709	III	Y91 without Y91
7	0.5	VT/GY	709	II	-	Left Park Lamp Supply Voltage	7	0.5	BU	709	III	-
8	0.5	D-BU/VT	3204	II	Z88	Left Headlamp Bulb Outage Signal	8	0.5	YE	3204	III	Z88

X111 Front Axle Jumper Harness to Engine Harness





Connector Part Information

Harness Type: Front Axle

OEM Connector: 13872556

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 150 MX Series, Sealed

Connector Part Information

Harness Type: Engine

OEM Connector: 13586625

Service Connector: 13577910

Description: 4-Way M 150 MX Series, Sealed (BK)

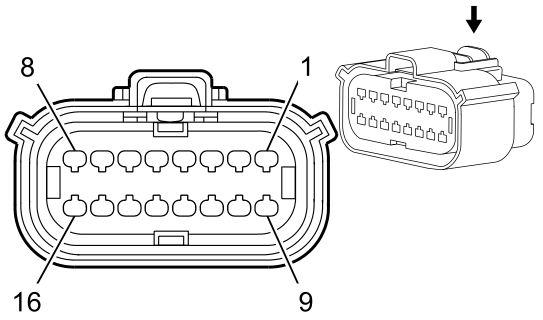
Terminal Part Information

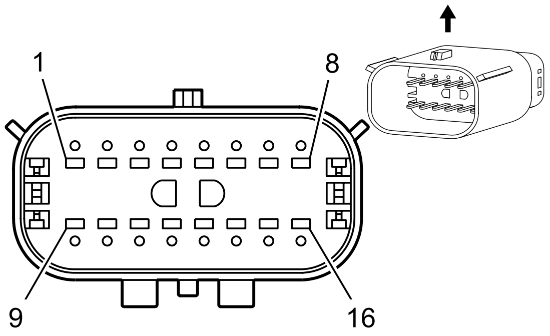
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-14 (GN)	Not Available	Not Available	Not Available	Not Available	Not Available
II	Not Available	J-35616-3 (GY)	Not Available	Not Available	Not Available	Not Available	Not Available

X111 Front Axle Jumper Harness to Engine Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	YE/WH	1695	I	-	Four Wheel Drive Wheel Lock Indicator	1	0.5	YE/WH	1695	I	-
2	0.5	GY/BK	1570	I	-	Front Axle Actuator Control	2	0.5	GY/BK	1570	I	-
3	0.5	VT/BK	2139	I	-	Run/Crank Ignition 1 Voltage	3	0.5	VT/BK	2139	I	-
4	0.5	BK	550	I	-	Ground	4	1	BK	550	II	-

X100 Forward Lamp Harness to Front Bumper Harness (X88 or Z88)





Connector Part Information

Harness Type: Front Bumper

OEM Connector: 13778557

Service Connector: 13584788

Description: 16-Way F 1.5 Series, Sealed (BK)

Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 13551665

Service Connector: 19300393

Description: 16-Way M 150 MX Series, Sealed (BK)

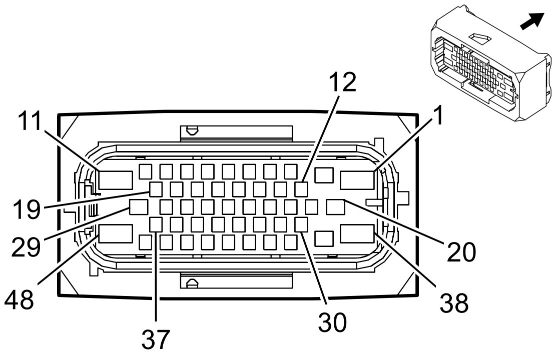
Terminal Part Information

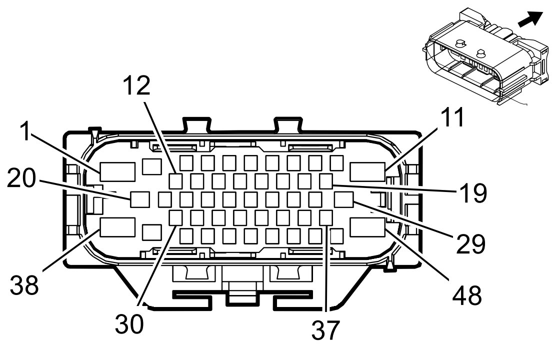
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575808	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	E	2
II	13587410	J-35616-3 (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available

X100 Forward Lamp Harness to Front Bumper Harness (X88 or Z88)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	BK	150	I	T3U	Ground	1	0.75	BK	150	II	T3U
2	0.5	BK	250	I	T3U	Ground	2	1	BK	250	II	T3U
3	0.5	BN/VT	2234	I	T3U	Front Fog Lamp Supply Voltage	3	0.5	BN/VT	2234	II	T3U
4	0.5	YE/L-GN	5213	I	UD5	Front Parking Left/Right/Mid Sensor	4	0.5	YE/VT	5213	II	UD5
5	0.5	VT/WH	5215	I	UD5	Front Parking Left Corner Sensor	5	0.5	VT/WH	5215	II	UD5
6	0.5	YE/GY	5216	I	UD5	Front Parking Left Mid Sensor	6	0.5	YE/GY	5216	II	UD5
7	0.5	WH/GY	5217	I	UD5	Front Parking Right Corner Sensor	7	0.5	WH/GY	5217	II	UD5
8-9	-	-	-	-	-	Not Occupied	8-9	-	-	-	-	-
10	0.5	VT/GY	5218	I	UD5	Front Parking Right Mid Sensor	10	0.5	VT/GY	5218	II	UD5
11	0.5	BK/D-BU	5214	I	UD5	Front Parking Sensor Low Reference	11	0.5	BK/D-BU	5214	II	UD5
12-16	-	-	-	-	-	Not Occupied	12-16	-	-	-	-	-

12-16	-	-	-	-	-	Not Occupied	12-16	-	-	-	-	-





Connector Part Information

Harness Type: Engine

OEM Connector: 15509587

Service Connector: 19119963

Description: 48-Way F 1.5 MCP, 2.8 JPT, 6.3 MCP Series, Sealed (GY)

Connector Part Information

Harness Type: Body

OEM Connector: 13937617

Service Connector: 13586850

Description: 48-Way M 1.6, 2.8, 5.8 Series, Sealed (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-42 (RD)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
II	Not Available	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
III	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
IV	13584463	J-35616-35 (VT)	J-38125-36	4-964286-1	16	E	1
V	Not Available	J-35616-35 (VT)	J-38125-36	4-964273-1	15	C	5
VI	Not Available	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	E	2
VII	Not Available	J-35616-42 (RD)	J-38125-36	Not Available	Not Available	Not Available	Not Available
VIII	13327190	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	E	1
IX	13327188	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
X	13584548	J-35616-5 (PU)	J-38125-36	1-962915-3	15	E	1
XI	Not Available	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	C	4
XII	Not Available	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available

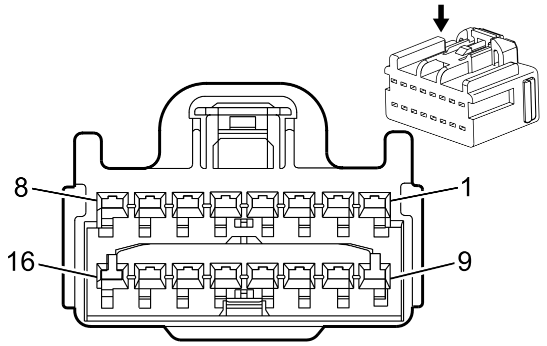
X115 Engine Harness to Body Harness

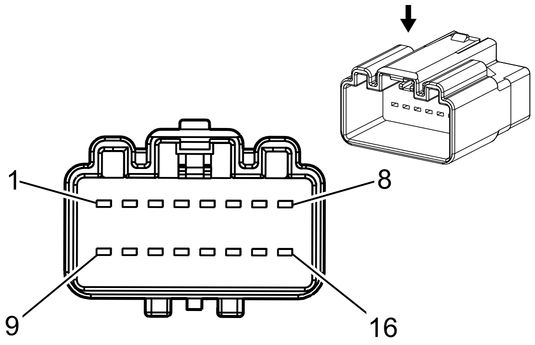
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	3	RD/GY	1342	I	NP0 or NQH	Battery Positive Voltage	1	4	RD/GY	1342	VII	NP0 or NQH
2	0.75	D-BU/BN	7573	IV	-	Electric Variable Displacement Supply	2	0.5	D-BU/BN	7573	X	-
3	0.5	BN/WH	419	III	-	Check Engine Indicator Control	3	0.35	BN/WH	419	IX	-

4	0.5	WH/D-BU	6311	III	-	Cruise/ETC/TCC Brake Signal	4	0.35	WH/D-BU	6311	IX	-
5	0.5	WH	2501	III	-	High Speed GMLAN Serial Data (-) (1)	5	0.5	WH	2501	VIII	-
6	0.5	D-BU	2500	III	-	High Speed GMLAN Serial Data (+) (1)	6	0.5	D-BU	2500	VIII	-
7	0.5	WH	5359	III	-	Brake Apply Sensor Supply Voltage	7	0.5	WH	5359	VIII	-
8	0.5	BK/BN	5360	III	-	Brake Apply Sensor Low Reference	8	0.5	BK/BN	5360	VIII	-
9	0.5	D-BU/YE	5361	III	-	Brake Apply Sensor Signal	9	0.5	D-BU/YE	5361	VIII	-
10	0.5	YE/WH	1161	II	-	Accelerator Pedal Position Signal (1)	10	0.35	YE/WH	1161	III	-
11	3	BK	550	I	NP0 or NQH	Ground	11	4	BK	550	VII	NP0 or NQH
12	0.5	WH/L-GN	7479	III	NP0 or NQH	Rotary Position Sensor Signal	12	0.5	WH/L-GN	7479	VIII	NP0 or NQH
13	0.5	YE/BK	7478	III	NP0 or NQH	Rotary Position Sensor Return	13	0.5	YE/BK	7478	VIII	NP0 or NQH
14	0.5	YE/WH	1695	III	NP0 or NQH	Four Wheel Drive Wheel Lock Indicator	14	0.5	YE/WH	1695	VIII	NP0 or NQH
15	0.5	GY/BK	1570	III	NP0 or NQH	Front Axle Actuator Control	15	0.5	GY/BK	1570	VIII	NP0 or NQH
16	0.5	VT/YE	5985	III	-	Accessory Wakeup Serial Data	16	0.35	VT/YE	5985	IX	-
17	0.5	WH/D-BU	5986	III	K59	Serial Data Communication Enable	17	0.5	WH/D-BU	5986	VIII	K59
18	0.5	WH/RD	1164	II	-	Accelerator Pedal Position 5 Volt Reference (1)	18	0.35	WH/RD	1164	III	-
19	0.5	BK/D-BU	1271	II	-	Accelerator Pedal Position Low Reference (1)	19	0.35	BK/D-BU	1271	III	-
20	0.75	D-BU/YE	7574	IV	-	Electric Variable Displacement Control	20	0.5	D-BU/YE	7574	X	-
21	0.5	WH/RD	7477	III	NP0 or NQH	Rotary Position Sensor Supply 5V	21	0.5	WH/RD	7477	VIII	NP0 or NQH
22	0.5	D-BU/GY	7473	III	NP0 or NQH	Incremental Encoder Impulse Signal	22	0.35	D-BU/GY	7473	IX	NP0 or NQH
23	0.5	VT	7476	III	NP0 or NQH	Incremental Encoder Sensor Return	23	0.35	VT	7476	IX	NP0 or NQH
24	-	-	-	-	-	Not Occupied	24	-	-	-	-	-
25	0.5	BN/RD	1274	II	-	Accelerator Pedal	25	0.35	BN/RD	1274	III	-

25	0.5	BN/RD	1274	II	-	Accelerator Pedal Position 5 Volt Reference (2)	25	0.35	BN/RD	1274	III	-
26	0.5	L-GN/WH	1162	II	-	Accelerator Pedal Position Signal (2)	26	0.35	L-GN/WH	1162	III	-
27	0.5	BK/PU	1272	II	-	Accelerator Pedal Position Low Reference (2)	27	0.35	BK/VT	1272	III	-
28	0.5	VT/D-BU	6091	III	NKC	Crankshaft Position Sensor Replicated Signal	28	0.35	VT/D-BU	6091	IX	NKC
29	2.5	YE/BN	1569	V	NP0 or NQH	Transfer Case Lock Solenoid Control	29	2.5	YE/BN	1569	XI	NP0 or NQH
30	0.5	WH/L-GN	7475	III	NP0 or NQH	Incremental Encoder Sensor (8V) Supply	30	0.35	WH/L-GN	7475	IX	NP0 or NQH
31	0.5	YE	7474	III	NP0 or NQH	Incremental Encoder Direction Signal	31	0.35	YE	7474	IX	NP0 or NQH
32	0.5	BK/PU	5077	III	-	Current Sensor Low Reference	32	0.35	BK/VT	5077	IX	-
33	0.5	WH/YE	5075	III	-	Current Sensor Signal	33	0.35	WH/YE	5075	IX	-
34	0.5	D-BU/VT	5076	III	-	Current Sensor Supply Voltage	34	0.35	D-BU/VT	5076	IX	-
35	0.5	D-BU/YE	6105	III	-	High Speed GMLAN Serial Data (+) (2)	35	0.5	D-BU/YE	6105	VIII	-
36	0.5	WH	6106	III	-	High Speed GMLAN Serial Data (-) (2)	36	0.5	WH	6106	VIII	-
37	-	-	-	-	-	Not Occupied	37	-	-	-	-	-
38	3	YE/VT	1553	I	NP0 or NQH	Transfer Case Motor Counter Clockwise Control	38	4	YE/VT	1553	VII	NP0 or NQH
39–41	-	-	-	-	-	Not Occupied	39–41	-	-	-	-	-
42	0.5	VT/BN	300	III	5W4 or 9C1	Run Ignition 3 Voltage	42	0.5	VT/BN	300	VIII	5W4 or 9C1
43–47	-	-	-	-	-	Not Occupied	43–47	-	-	-	-	-
48	3	YE/GY	1552	I	NP0 or NQH	Transfer Case Motor Clockwise Control	48	4	YE/GY	1552	VII	NP0 or NQH

X119 Body Harness to Brake Clutch Jumper Harness





Connector Part Information

Harness Type: Body

OEM Connector: 10847013

Service Connector: 89047090

Description: 16-Way F 1.5 Kaizen Series (GN)

Connector Part Information

Harness Type: Brake Clutch Jumper

OEM Connector: 13507433

Service Connector: 89047072

Description: 16-Way M 1.5 Kaizen Series (GN)

Terminal Part Information

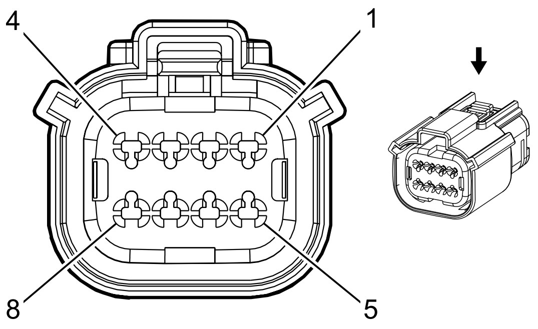
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	13578891	J-35616-2A (GY)	J-38125-11A	7116-4100-08	9	E	C
III	13575816	J-35616-3 (GY)	J-38125-553	7114-4100-08	9	E	C

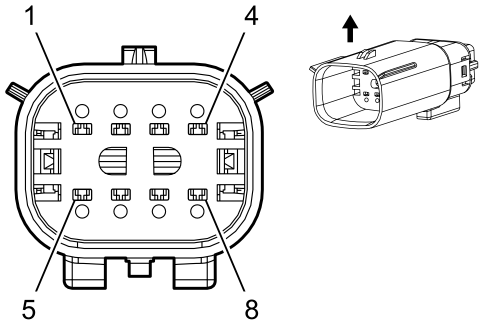
X119 Body Harness to Brake Clutch Jumper Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	BK/D-BU	1271	I	-	Accelerator Pedal Position Low Reference (1)	1	0.35	BK/D-BU	1271	III	-
2	0.35	YE/WH	1161	I	-	Accelerator Pedal Position Signal (1)	2	0.35	YE/WH	1161	III	-
3	0.35	WH/RD	1164	I	-	Accelerator Pedal Position 5 Volt Reference (1)	3	0.35	WH/RD	1164	III	-
4	0.35	BK/VT	1272	I	-	Accelerator Pedal Position Low Reference (2)	4	0.35	BK/VT	1272	III	-
5	0.35	L-GN/WH	1162	I	-	Accelerator Pedal Position Signal (2)	5	0.35	L-GN/WH	1162	III	-
6	0.35	BN/RD	1274	I	-	Accelerator Pedal Position 5 Volt Reference (2)	6	0.35	BN/RD	1274	III	-
7	0.5	WH	5359	II	-	Brake Apply Sensor Supply Voltage	7	0.5	WH	5359	III	-
8	0.5	BK/BN	5360	II	-	Brake Apply Sensor	8	0.5	BK/BN	5360	III	-

8	0.5	BR/BN	5360	II	-	Brake Apply Sensor Low Reference	8	0.5	BR/BN	5360	III	-
9	0.5	D-BU/YE	5361	II	-	Brake Apply Sensor Signal	9	0.5	D-BU/YE	5361	III	-
10	0.5	YE/BK	7478	II	NP0 or NQH	Rotary Position Sensor Return	10	0.5	YE/BK	7478	III	NP0 or NQH
11	0.5	WH/RD	7477	II	NP0 or NQH	Rotary Position Sensor Supply 5V	11	0.5	WH/RD	7477	III	NP0 or NQH
12	0.5	WH/L-GN	7479	II	NP0 or NQH	Rotary Position Sensor Signal	12	0.5	WH/L-GN	7479	III	NP0 or NQH
13-16	-	-	-	-	-	Not Occupied	13-16	-	-	-	-	-

X120 Forward Lamp Harness to Right Headlamp Harness (X88 or Z88)





Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 13654393

Service Connector: 13577527

Description: 8-Way F 1.5 Series, Sealed (BK)

Connector Part Information

Harness Type: Left Headlamp

OEM Connector: 13503538

Service Connector: Service by Component - See Part Catalog

Description: 8–Way M 1.5 Series, Sealed (BK)

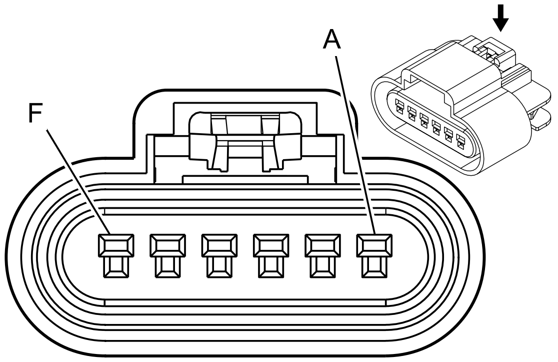
Terminal Part Information

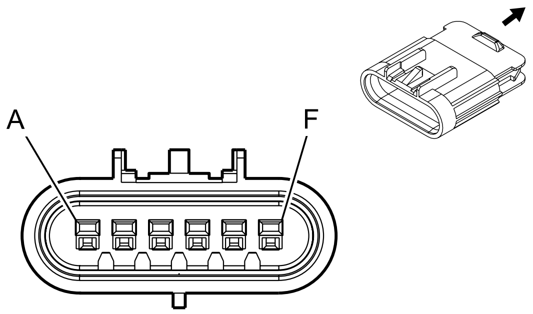
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575808	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	A/E	A/C
II	13575809	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	E	2
III	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X120 Forward Lamp Harness to Right Headlamp Harness (X88 or Z88)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	BK	250	I	-	Ground	1	0.75	BK	250	III	-
2	0.75	YE	312	I	-	Right Headlamp Low Beam Supply Voltage	2	0.75	PU	312	III	-
3	0.75	WH	311	II		Right Headlamp High Beam Supply Voltage	3	0.5	WH	311	III	-
4	0.75	BK	250	I	-	Ground	4	0.75	BK	250	III	-
5	0.75	L-GN/VT	1315	I	-	Right Front Turn Signal Lamp Supply Voltage	5	0.75	RD	1315	III	-
6	0.75 0.5	D-BU/BN GY/BN	7539 309	I	Y91 without Y91	Right Front DRL Supply Voltage Right Park Lamp Supply Voltage	6	0.75 0.75	GN GN	7539 309	III	Y91 without Y91
7	0.5	GY/BN	309	II	-	Right Park Lamp Supply Voltage	7	0.5	BU	309	III	-
8	0.5	WH/D-BU	3203	II	Z88	Right Headlamp Bulb Outage Signal	8	0.5	YE	3203	III	Z88

X122 Forward Lamp Harness to Forward Lamp Harness (6J7)





Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 15326829

Service Connector: 13584094

Description: 6-Way F 150 GT Series, Sealed (BK)

Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 15326833

Service Connector: 15326833

Description: 6-Way M 150 GT Series, Sealed (BK)

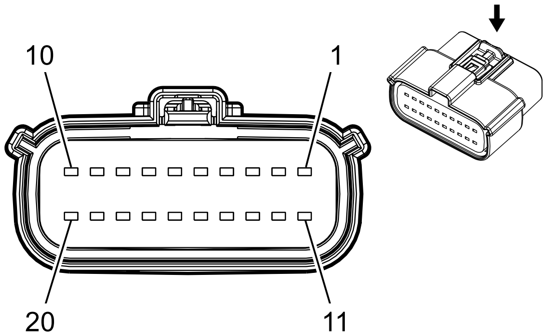
Terminal Part Information

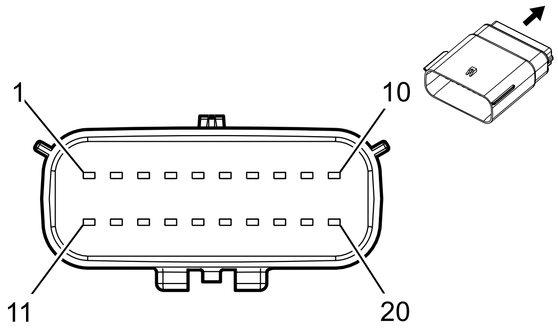
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-2A (GY)	J-38125-553	12191819	8	2	1
II	13582291	J-35616-3 (GY)	J-38125-553	15326269	19	E	1

X122 Forward Lamp Harness to Forward Lamp Harness (6J7)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	1	BK	250	I	-	Ground	A					
B	0.75	WH	711	I	-	Left Headlamp High Beam Supply Voltage	B	0.75	WH	711	II	-
C	0.75	RD/D-BU	3940	I	-	Battery Positive Voltage	C					
D	0.75	WH	311	I	-	Right Headlamp High Beam Supply Voltage	D	0.75	WH	311	II	-
E	0.75	L-GN	6820	I	-	Exterior Lamp Flasher Signal	E					
F	0.75	D-BU/L-GN	6841	I	-	Rear Lamp Flasher Signal	F					

X125 Engine Harness to Chassis Harness





Connector Part Information

Harness Type: Engine

OEM Connector: 13650143

Service Connector: 19300557

Description: 20-Way F 1.5 Series, Sealed (BK)

Connector Part Information

Harness Type: Chassis

OEM Connector: 13520296

Service Connector: 19300560

Description: 20-Way M 1.5 Series, Sealed (BK)

Terminal Part Information

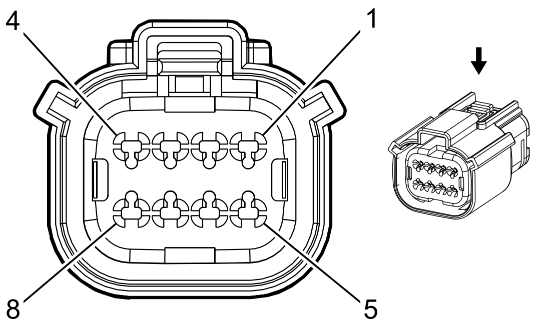
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575808	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	E	2
II	13575809	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	E	2
III	13587412	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	Not Available	Not Available
IV	13587410	J-35616-3 (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available

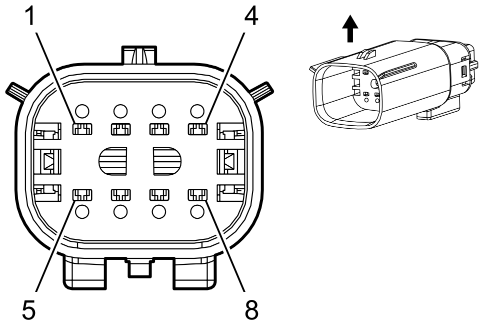
X125 Engine Harness to Chassis Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	VT/D-BU	3120	I	-	Heated Oxygen Sensor High Signal Bank 1 Sensor (2)	1	0.5	VT/D-BU	3120	III	-
2	0.5	WH/YE	3121	I	-	Heated Oxygen Sensor Low Signal Bank 1 Sensor (2)	2	0.5	WH/YE	3121	III	-
3	0.5	GY/WH	3122	I	-	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor (2)	3	0.5	GY/WH	3122	III	-
4	0.5	VT/D-BU	5294	I	-	Powertrain Main Relay Fused Supply (5)	4	0.5	VT/D-BU	5294	III	-
5	0.5	D-BU/YE	6105	I	-	High Speed GMLAN Serial Data (+) (2)	5	0.5	D-BU/YE	6105	III	-
6	0.5	WH	6106	I	-	High Speed GMLAN Serial Data (-) (2)	6	0.5	WH	6106	III	-
7	0.5	WH	1310	I	-	EVAP Canister Vent Solenoid Control	7	0.5	WH	1310	III	-

8	0.5	D-BU/WH	7446	I	-	Fuel Line Pressure Sensor Signal	8	0.5	D-BU/WH	7446	III	-
9	0.5	BK/YE	7447	I	-	Fuel Line Pressure Sensor Low Reference	9	0.5	BK/YE	7447	III	-
10	-	-	-	-	-	Not Occupied	10	-	-	-	-	-
11	0.5	D-BU/VT	1589	I	-	Primary Fuel Level Sensor Signal	11	0.5	D-BU/VT	1589	III	-
12	0.5	BK/L-GN	6281	I	-	Fuel Level Sensor Low Reference	12	0.5	BK/L-GN	6281	III	-
13	0.5	D-BU/BK	7493	I	-	High Speed GMLAN Serial Data (+)(3)	13	0.5	D-BU/BK	7493	III	-
14	0.5	WH	7494	I	-	High Speed GMLAN Serial Data (-)(3)	14	0.5	WH	7494	III	-
15	0.5	D-BU/WH	890	I	-	Fuel Tank Pressure Sensor Signal	15	0.5	D-BU/WH	890	III	-
16	0.5	YE/RD	2709	I	-	Fuel Tank Pressure Sensor 5 Volt Reference	16	0.5	YE/RD	2709	III	-
17	0.5	WH	1579	I	-	Fuel Temperature/Composition Signal	17	0.5	WH	1579	III	-
18	0.5	BN/RD	7445	I	-	Fuel Line Pressure Sensor 5V Reference	18	0.5	BN/RD	7445	III	-
19–20	-	-	-	-	-	Not Occupied	19–20	-	-	-	-	-

X139 Engine Harness to Forward Lamp Harness





Connector Part Information

Harness Type: Engine

OEM Connector: 13654393

Service Connector: 13577527

Description: 8-Way F 1.5 Series, Sealed (BK)

Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 15456955

Service Connector: 19300474

Description: 8-Way M 150 MX Series, Sealed (BK)

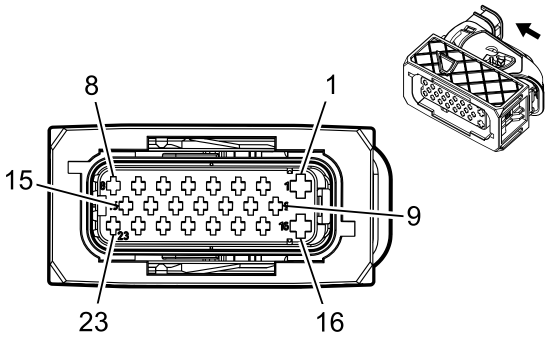
Terminal Part Information

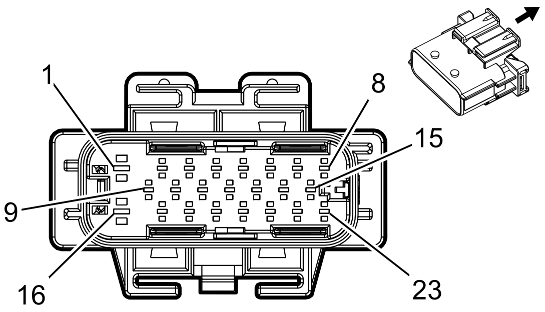
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575808	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	E	2
II	13587410	J-35616-3 (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
III	13587412	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	Not Available	Not Available

X139 Engine Harness to Forward Lamp Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	BN/YE	473	I	-	High Speed Cooling Fan Relay Control	1	0.5	BN/YE	473	II	-
2	0.5	BK/D-BU	61	I	-	Outside Ambient Temperature Sensor Low Reference	2	0.5	BK/D-BU	61	II	-
3	0.5	D-BU/GY	636	I	-	Outside Ambient Air Temperature Sensor Signal	3	0.5	D-BU/GY	636	II	-
4	0.5	WH/D-BU	5986	I	K59	Serial Data Communication Enable	4	0.5	WH/D-BU	5986	II	K59
5	0.5	WH	6106	I	-	High Speed GMLAN Serial Data (-) (2)	5	0.5	WH	6106	II	-
6	0.5	D-BU/YE	6105	I	-	High Speed GMLAN Serial Data (+) (2)	6	0.5	D-BU/YE	6105	II	-
7	0.5	D-BU	2500	I	-	High Speed GMLAN Serial Data (+) (1)	7	0.5	D-BU	2500	II	-
8	0.5	WH	2501	I	-	High Speed GMLAN Serial Data (-) (1)	8	0.5	WH	2501	II	-

X150 Body Harness to Forward Lamp Harness





Connector Part Information

Harness Type: Body

OEM Connector: 13674800

Service Connector: Not Available

Description: 23-Way F 1.5 DSQ, 2.8 AST Series, Sealed (BK)

Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 13750011

Service Connector: 19301797

Description: 23-Way M 1.5, 2.8 Series, Sealed (BK)

Terminal Part Information

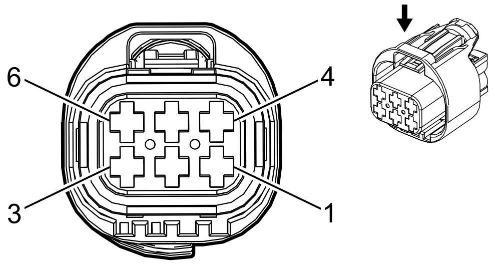
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-35 (VT)	J-38125-36	4-964286-1	16	E	1
II	13582248	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	E	1
III	Not Available	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1
IV	13584463	J-35616-35 (VT)	J-38125-36	4-964286-1	16	E	1
V	13588058	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1
VI	13584548	J-35616-5 (PU)	J-38125-36	1-962915-3	15	E	1
VII	13327190	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	E	1

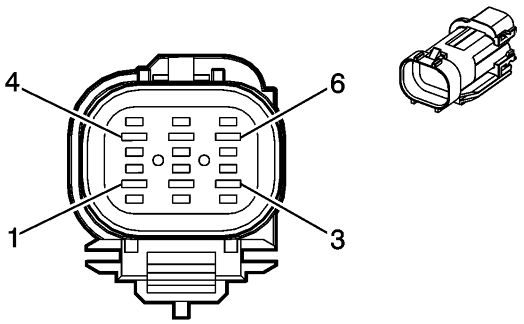
X150 Body Harness to Forward Lamp Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	RD/L-GN	3140	I	K59	Battery Positive Voltage	1	0.5	RD/L-GN	3140	VI	K59
2	0.35	WH/BN	6201	III	UVH	Camera Supply Voltage	2	0.5	WH/BN	6201	VII	UVH
3	0.35	BK/WH	2551	III	UVH	Signal Ground	3	0.5	BK/WH	2551	VII	UVH
4	0.5	YE/GY	5216	II	UD5	Front Parking Left Mid Sensor	4	0.5	YE/GY	5216	VII	UD5
5	0.5	WH/GY	5217	II	UD5	Front Parking Right Corner Sensor	5	0.5	WH/GY	5217	VII	UD5
6	0.5	VT/GY	5218	II	UD5	Front Parking Right Mid Sensor	6	0.5	VT/GY	5218	VII	UD5
7	0.5	BK/D-BU	5214	II	UD5	Front Parking Sensor Low Reference	7	0.5	BK/D-BU	5214	VII	UD5

8	0.5	VT/WH	5215	II	UD5	Front Parking Left Corner Sensor	8	0.5	VT/WH	5215	VII	UD5
9	0.5	D-BU/VT	3813	III	-	High Speed GMLAN Serial Data (+) (4)	9	0.5	D-BU/VT	3813	VII	-
10	0.5	WH	3811	III	-	High Speed GMLAN Serial Data (-) (4)	10	0.5	WH	3811	VII	-
11	0.35	OG/L-GN	1409	II	-	Right Front Discriminating Sensor Signal	11	0.5	OG/L-GN	1409	VII	-
12	0.35	BK/OG	5600	II	-	Right Front Discriminating Sensor Low Reference	12	0.5	BK/OG	5600	VII	-
13	0.35	GY/VT	3808	III	UGN	Front Object Sensor Supply Voltage (2)	13	0.5	GY/VT	3808	VII	UGN
14	0.35	VT	185	II	-	Low Washer Fluid Indicator Control	14	0.5	VT	185	VII	-
15	0.5	YE/VT	5213	II	UD5	Front Parking Left/Right/Mid Sensor	15	0.5	YE/VT	5213	VII	UD5
16	-	-	-	-	-	Not Occupied	16	-	-	-	-	-
17	0.35	D-BU	3373	III	UVH	Auxiliary Video High Signal (2)	17	0.5	D-BU	3373	VII	UVH
18	0.35 0.75	GY D-BU/L-GN	3372 6841	III	UVH 6J7	Auxiliary Video Low Signal (2) Rear Lamp Flasher Signal	18	0.5 0.75	GY D-BU/L-GN	3372 6841	VII	UVH 6J7
19	0.35 0.75	BK L-GN	3371 6820	III	UVH 6J7	Video Drain Wire (2) Exterior Lamp Flasher Signal	19	0.5 0.75	BK L-GN	3371 6820	VII	UVH 6J7
20	0.35	OG/YE	354	II		Left Front Discriminating Sensor Signal	20	0.5	OG/YE	354	VII	-
21	0.35	BK/OG	5045	II		Left Front Discriminating Sensor Low Reference	21	0.5	BK/OG	5045	VII	-
22	-	-	-	-	-	Not Occupied	22	-	-	-	-	-
23	0.5	BN/L-GN	109	II	-	Hood Ajar Switch Signal	23	0.5	BN/L-GN	109	VII	-

X158 Battery Harness to Engine Harness (5W4 or 9C1)





Connector Part Information

Harness Type: Auxiliary Battery

OEM Connector: 13580779

Service Connector: Service by Harness - See Part Catalog

Description: 6–Way F 2.8 Junior Power Timer Series, Sealed (GY)

Connector Part Information

Harness Type: Engine

OEM Connector: 13893482

Service Connector: POSA

Description: 6-Way M 2.8 Series, Sealed (BK)

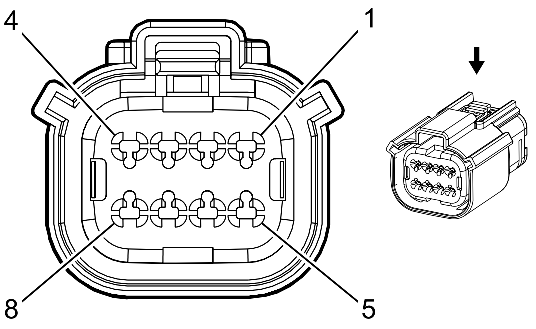
Terminal Part Information

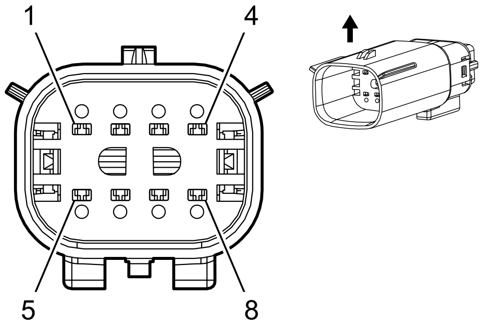
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	13584548	J-35616-5 (PU)	J-38125-36	1-962915-3	15	E	1
III	Not Available	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	C	4

X158 Battery Harness to Engine Harness (5W4 or 9C1)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	VT/BN	300	I	-	Run Ignition 3 Voltage	1	0.5	VT/BN	300	II	-
2	-	-	-	-	-	Not Occupied	2	-	-	-	-	-
3	0.5	RD/BU	4540	I	-	Battery Positive Voltage	3	0.5	RD/WH	3440	II	-
4	1	BK	550	I	-	Ground	4	1	BK	550	II	-
5	-	-	-	-	-	Not Occupied	5	-	-	-	-	-
6	2.5	RD/L-GN	742	I	-	Battery Positive Voltage	6	2.5	RD/L-GN	742	III	-

X154 Engine Harness to Camshaft Jumper Harness





Connector Part Information

Harness Type: Engine

OEM Connector: 13884361

Service Connector: 19301723

Description: 8-Way F 1.5 Series, Sealed (BK)

Connector Part Information

Harness Type:13503538

OEM Connector: 33482-0827

Service Connector: Service by Harness - See Part Catalog

Description: 8–Way M 150 MX Series, Sealed (BK)

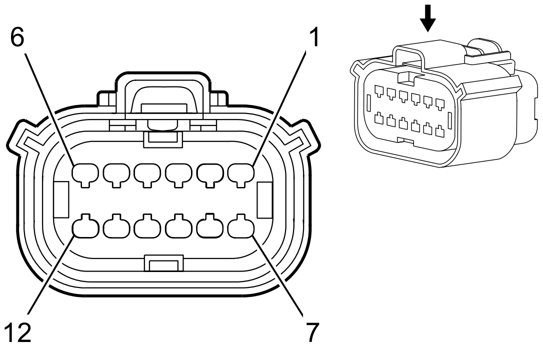
Terminal Part Information

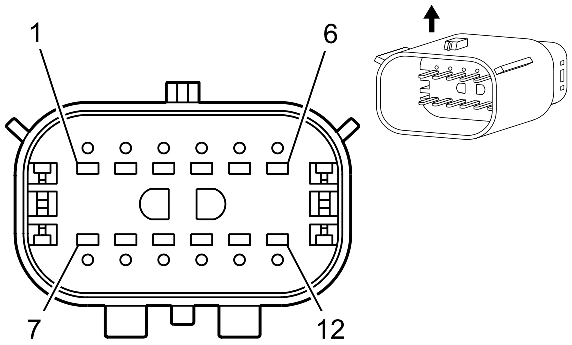
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X154 Engine Harness to Camshaft Jumper Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	GY/D-BU	5300	I	-	Camshaft Position Intake Sensor Supply Voltage (1)	1	0.5	GY/D-BU	5300	I	-
2	0.5	BK/L-GN	5301	I	-	Camshaft Position Intake Sensor Low Reference (1)	2	0.5	BK/L-GN	5301	I	-
3	0.5	YE/VT	5275	I	-	Camshaft Position Intake Sensor (1)	3	0.5	YE/VT	5275	I	-
4	0.5	D-BU	179	I	-	Oil Pump Command Signal	4	0.5	D-BU	179	I	-
5	0.5	VT/BN	5284	I	-	Camshaft Phaser Intake Solenoid (1)	5	0.5	VT/BN	5284	I	-
6	0.5	BK/BN	6753	I	-	Cam Phaser W Return Low Reference	6	0.5	BK/BN	6753	I	-
7	0.75	VT/D-BU	5293	I	-	Powertrain Main Relay Fused Supply (4)	7	0.75	VT/D-BU	5293	I	-
8	-	-	-	-	-	Not Occupied	8	-	-	-	-	-

X160 Engine Harness to Fuel Injector Harness





Connector Part Information

Harness Type: Engine

OEM Connector: 13653762

Service Connector: 13503528

Description: 12-Way F 1.5 Series, Sealed (BK)

Connector Part Information

Harness Type: Fuel Injector — Odd

OEM Connector: 13503542

Service Connector: Service by Harness - See Part Catalog

Description: 12–Way M 150 MX Series, Sealed (BK)

Terminal Part Information

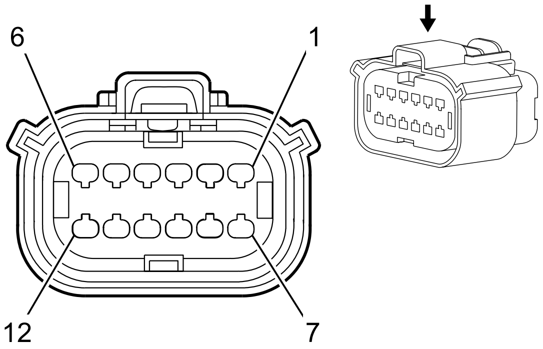
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

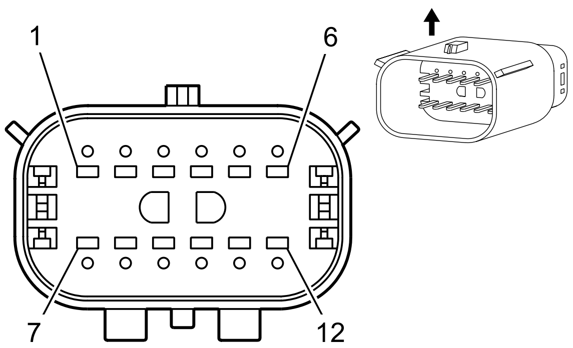
X160 Engine Harness to Fuel Injector Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	BN/WH	4901	I	-	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 1	1	0.75	BN/WH	4901	I	-
2	0.75	L-GN/GY	4903	I	-	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3	2	0.75	L-GN/GY	4903	I	-
3	0.75	L-GN/WH	4905	I	-	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 5	3	0.75	L-GN/WH	4905	I	-
4	0.75	WH/YE	4907	I	-	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 7	4	0.75	WH/YE	4907	I	-
5	0.75	BN	4801	I	-	Direct Fuel Injector (DFI) High Voltage Control Cylinder 1	5	0.75	BN	4801	I	-
6	0.5	BN/YE	2161	I	-	Fuel Rail Pressure Sensor #2 Signal	6	0.5	BN/YE	2161	I	-
7	0.75	L-GN	4803	I	-	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3	7	0.75	L-GN	4803	I	-
8	0.75	WH/L-GN	4805	I	-	Direct Fuel Injector (DFI) High Voltage Control Cylinder 5	8	0.75	WH/L-GN	4805	I	-

9	0.75	YE/GY	4807	I	-	Direct Fuel Injector (DFI) High Voltage Control Cylinder 7	9	0.75	YE/GY	4807	I	-
10	0.5	BN/RD	2917	I	-	Fuel Rail Pressure Sensor (5) Volt Reference	10	0.5	BN/RD	2917	I	-
11	0.5	D-BU/WH	2918	I	-	Fuel Rail Pressure Sensor Signal	11	0.5	D-BU/WH	2918	I	-
12	0.5	BK/L-GN	2919	I	-	Fuel Rail Pressure Sensor Low Reference	12	0.5	BK/L-GN	2919	I	-

X161 Engine Harness to Even Fuel Injector Harness





Connector Part Information

Harness Type: Engine

OEM Connector: 13922706

Service Connector: 13503528

Description: 12-Way F 1.5 Series, Sealed (BK)

Connector Part Information

Harness Type: Fuel Injector — Even

OEM Connector: 13577094

Service Connector: Service by Harness - See Part Catalog

Description: 12–Way M 150 MX Series, Sealed (BK)

Terminal Part Information

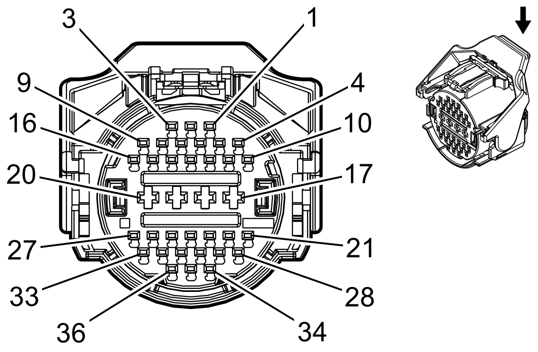
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X161 Engine Harness to Even Fuel Injector Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	D-BU/GY	4902	I	-	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2	1	0.75	D-BU/GY	4902	I	-
2	0.75	D-BU/WH	4904	I	-	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4	2	0.75	D-BU/WH	4904	I	-
3	0.75	VT/GY	4906	I	-	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 6	3	0.75	VT/GY	4906	I	-
4	0.75	GY/WH	4908	I	-	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 8	4	0.75	GY/WH	4908	I	-
5	0.75	D-BU	4802	I	-	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2	5	0.75	D-BU	4802	I	-
6-7	-	-	-	-	-	Not Occupied	6-7	-	-	-	-	-
8	0.75	GY/D-BU	4804	I	-	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4	8	0.75	GY/D-BU	4804	I	-
9	0.75	VT/L-GN	4806	I	-	Direct Fuel Injector (DFI) High Voltage Control Cylinder 6	9	0.75	VT/L-GN	4806	I	-
10	0.75	GY	4808	I	-	Direct Fuel Injector	10	0.75	GY	4808	I	-

10	0.75	GY	4808	I	-	Direct Fuel Injector (DFI) High Voltage Control Cylinder 8	10	0.75	GY	4808	I	-
11	0.75	VT/BK	7300	I	-	High Pressure Fuel Pump Actuator Low - Control	11	0.75	VT/BK	7300	I	-
12	0.75	YE	7301	I	-	High Pressure Fuel Pump Actuator High - Control	12	0.75	YE	7301	I	-

X175 Engine Harness to Transmission Harness (M5U)



Connector Part Information

Harness Type: Engine

OEM Connector: 15504573

Service Connector: Not Available

Description: 36-Way F 1.2 MCON CB, 2.8 MCP Series, Sealed (BK)

Connector Part Information

Harness Type:

OEM Connector:

Service Connector: Service by Harness - See Part Catalog

Description: 36 M

Terminal Part Information

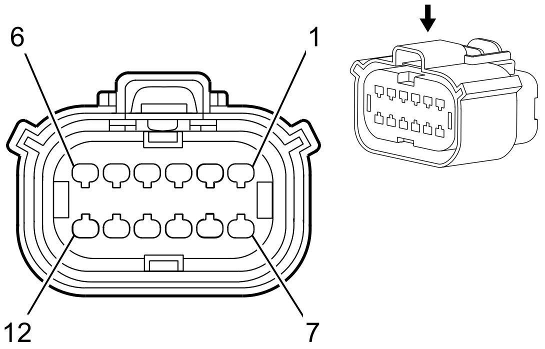
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

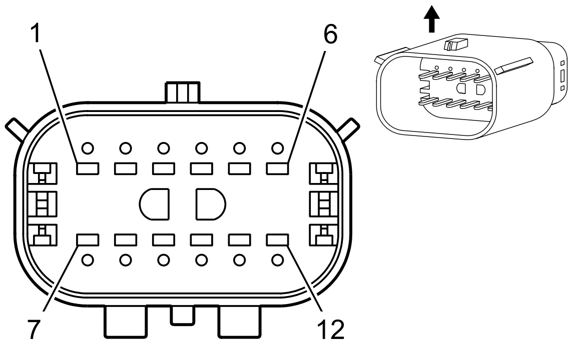
X175 Engine Harness to Transmission Harness (M5U)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	L-GN/WH	6380	I	-	TCC On/Off Solenoid A Control	1	0.5	L-GN/WH	6380	I	-
2	-	-	-	-	-	Not Occupied	2	-	-	-	-	-
3	0.5	YE/BN	6404	I	-	Clutch E Control	3	0.5	YE/BN	6404	I	-
4	0.5	GY/L-GN	6403	I	-	Clutch D Control	4	0.5	GY/L-GN	6403	I	-
5	0.5	BN	6400	I	-	Clutch A Control	5	0.5	BN	6400	I	-
6	0.5	D-BU	6401	I	-	Clutch B Control	6	0.5	D-BU	6401	I	-
7	0.5	YE/BN	6210	I	-	TCC On/Off Solenoid B Control	7	0.5	YE/BN	6210	I	-
8-9	-	-	-	-	-	Not Occupied	8-9	-	-	-	-	-
10	0.5	GY	6402	I	-	Clutch C Control	10	0.5	GY	6402	I	-
11	0.5	BK/BN	586	I	-	Transmission Oil Temperature Sensor Low Reference	11	0.5	BK/BN	586	I	-
12	0.5	BN/WH	585	I	-	Transmission Oil Temperature Sensor Signal	12	0.5	BN/WH	585	I	-
13	0.5	WH	4508	I	-	Transmission Clutch G Control	13	0.5	WH	4508	I	-

						Control					
14	0.5	WH/D-BU	4507	I	-	Transmission Clutch H Control	14	0.5	WH/D-BU	4507	I	-
15-17	-	-	-	-	-	Not Occupied	15-17	-	-	-	-	-
18	0.75	L-GN/GY	6387	I	-	Transmission High Side Driver #1 Signal Driver	18	0.75	L-GN/GY	6387	I	-
19	0.75	GY/BN	6388	I	-	Transmission High Side Driver #2 Signal	19	0.75	GY/BN	6388	I	-
20	-	-	-	-	-	Not Occupied	20	-	-	-	-	-
21	0.5	WH/BK	5983	I	-	PRNDL C Signal	21	0.5	WH/BK	5983	I	-
22	0.5	VT/WH	5981	I	-	PRNDL A Signal	22	0.5	VT/WH	5981	I	-
23	0.5	GY/WH	4168	I	-	PRNDL P Signal	23	0.5	GY/WH	4168	I	-
24	0.5	GY/D-BU	6358	I	-	Output Speed Signal	24	0.5	GY/D-BU	6358	I	-
25	0.5	YE/L-GN	4170	I	-	Transmission Sensor B Voltage Reference 9V	25	0.5	YE/L-GN	4170	I	-
26	0.5	L-GN/YE	6353	I	-	Input Speed Signal	26	0.5	L-GN/YE	6353	I	-
27	0.5	YE/D-BU	4171	I	-	Transmission Sensor A Voltage Reference 9V	27	0.5	YE/D-BU	4171	I	-
28	0.5	GY/BN	5982	I	-	PRNDL B Signal	28	0.5	GY/BN	5982	I	-
29	0.5	YE/D-BU	4171	I	-	Transmission Sensor A Voltage Reference 9V	29	0.5	YE/D-BU	4171	I	-
30	0.5	BK/GY	3927	I	-	IMS Mode Switch Return	30	0.5	BK/GY	3927	I	-
31	0.5	YE/L-GN	4170	I	-	Transmission Sensor B Voltage Reference 9V	31	0.5	YE/L-GN	4170	I	-
32	0.5	L-GN/VT	4510	I	-	Transmission Intermediate Speed Signal	32	0.5	L-GN/VT	4510	I	-
33	-	-	-	-	-	Not Occupied	33	-	-	-	-	-
34	0.5	GY/YE	4169	I	-	PRNDL S Signal	34	0.5	GY/YE	4169	I	-
35	0.5	WH/GY	1786	I	-	Transmission Park/Neutral Signal (1)	35	0.5	WH/GY	1786	I	-
36	-	-	-	-	-	Not Occupied	36	-	-	-	-	-

X182 Chassis Harness to Power Steering Jumper Harness





Connector Part Information

Harness Type: Chassis

OEM Connector: 13609715

Service Connector: 19178148

Description: 12-Way F 1.5 Series, Sealed (BK)

Connector Part Information

Harness Type: Power Steering Jumper

OEM Connector: 28287535

Service Connector: Service by Harness - See Part Catalog

Description: 12–Way M 150 MX Series, Sealed

Terminal Part Information

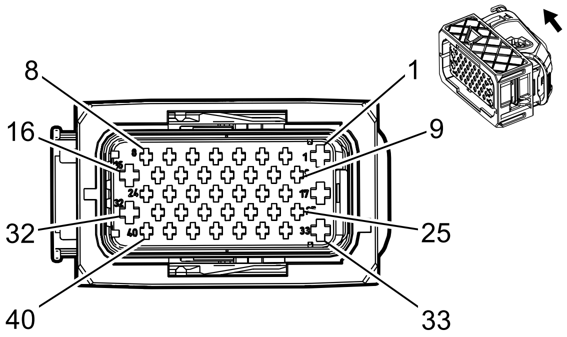
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575809	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	E	2
II	13575808	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	E	2
III	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

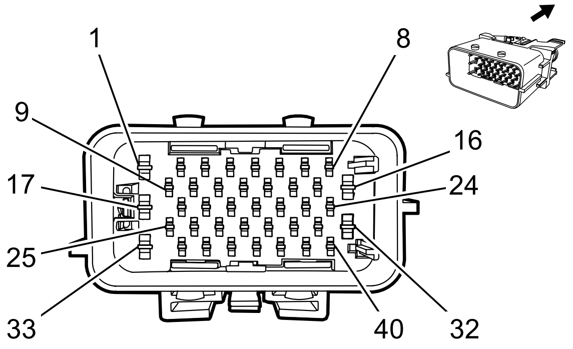
X182 Chassis Harness to Power Steering Jumper Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	-	-	-	-	Not Occupied	1	-	-	-	-	-
2	0.5	WH	2501	I	-	High Speed GMLAN Serial Data (-) (1)	2	0.5	L-GN/L-BU	2501	III	-
3	0.5	D-BU	2500	I	-	High Speed GMLAN Serial Data (+) (1)	3	0.5	BK	2500	III	-
4	0.5	WH	6106	I	-	High Speed GMLAN Serial Data (-) (2)	4	0.5	YE/L-GN	6106	III	-
5	0.5	D-BU/YE	6105	I	-	High Speed GMLAN Serial Data (+) (2)	5	0.5	BK/OG	6105	III	-
6-7	-	-	-	-	-	Not Occupied	6-7	-	-	-	-	-
8	0.5	WH/D-BU	5986	I	-	Serial Data Communication Enable	8	0.5	GY	5986	III	-
9	0.5	WH	2501	I	-	High Speed GMLAN Serial Data (-) (1)	9	0.5	BK/L-GN	2501	III	-
10	0.5	D-BU	2500	I	-	High Speed GMLAN Serial Data (+) (1)	10	0.5	WH/BN	2500	III	-
11	0.5	WH	6106	I	-	High Speed GMLAN	11	0.5	VT	6106	III	-

11	0.5	WH	6106	I	-	High Speed GMLAN Serial Data (-) (2)	11	0.5	VT	6106	III	-
12	0.5	D-BU/YE	6105	I	-	High Speed GMLAN Serial Data (+) (2)	12	0.5	BN/YE	6105	III	-

X185 Chassis Harness to Body Harness





Connector Part Information

Harness Type: Chassis

OEM Connector: 13965186

Service Connector: 19301818

Description: 40-Way F 1.5 DSQ, 2.8 ATS Series, Sealed

Connector Part Information

Harness Type: Body

OEM Connector: 13603208

Service Connector: 13576551

Description: 40-Way M 1.5 DSQ, 2.8 ATS Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	13588058	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1
III	Not Available	J-35616-35 (VT)	J-38125-36	4-964273-1	15	C	5
IV	13584470	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1
V	Not Available	J-35616-35 (VT)	J-38125-36	4-964286-1	16	E	1
VI	13584548	J-35616-5 (PU)	J-38125-36	1-962915-3	15	E	1
VII	13327190	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	E	1
VIII	13327188	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
IX	Not Available	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	C	4
X	Not Available	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	E	1
XI	Not Available	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available

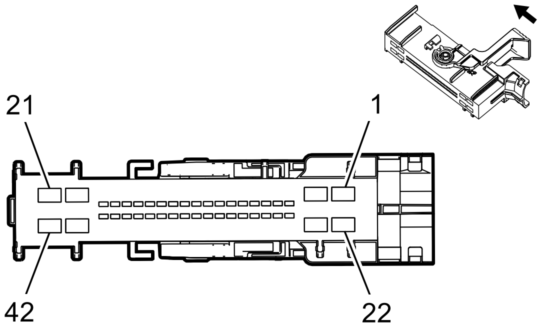
X185 Chassis Harness to Body Harness

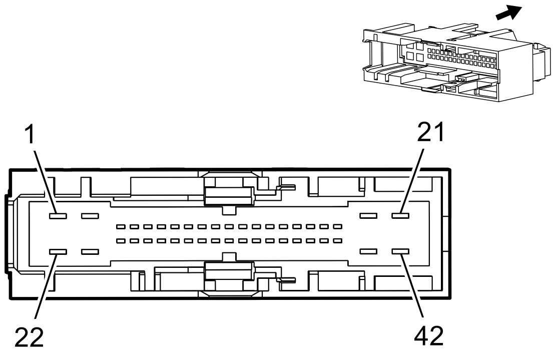
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	L-GN/BK	7633	I	JL1	Integrated Trailer Brake Controller User Gain Signal	1	0.5	L-GN/BK	7633	VI	JL1
2	0.5	L-GN/BN	2087	II	-	Combined Vehicle Inertial Sensor Supply Voltage	2	0.35	L-GN/BN	2087	VIII	-
3	0.5	YE	7635	II	JL1	Integrated Trailer Brake Controller Manual Apply	3	0.5	YE	7635	VII	JL1

						Controller Manual Apply Signal					
4	0.5	D-BU/RD	7632	II	JL1	Integrated Trailer Brake Controller Switch 5 Volt Reference	4	0.5	D-BU/RD	7632	VII	JL1
5	0.5	BN	7634	II	JL1	Integrated Trailer Brake Contoller Redundant Manual Apply Signal	5	0.5	BN	7634	VII	JL1
6	0.5	BK/BN	7631	II	JL1	Integrated Trailer Brake Controller Switch Low Reference	6	0.5	BK/BN	7631	VII	JL1
7	-	-	-	-	-	Not Occupied	7	-	-	-	-	-
8	0.5	L-GN	5060	II	BRS	Low Speed GMLAN Serial Data	8	0.5	L-GN	5060	VII	BRS
9	0.5	GY/RD	7684	II	J71	Park Brake Apply Switch Voltage Reference	9	0.35	GY/RD	7684	VII	J71
10	0.5	BN	6107	II	J71	Park Brake Apply Switch Signal	10	0.35	BN	6107	VIII	J71
11	0.5	D-BU/VT	1134	II	J71	Park Brake Switch Signal	11	0.35	D-BU/VT	1134	VII	J71
12	0.5	D-BU/BK	6108	II	J71	Park Brake Release Switch Signal	12	0.35	D-BU/BK	6108	VII	J71
13	0.5	YE/RD	7683	II	J71	Park Brake Release Switch Voltage Reference	13	0.35	YE/RD	7683	VII	J71
14	0.5	YE	1492	II	J71	Park Brake Switch Supply Voltage	14	0.35	YE	1492	VII	J71
15	0.5	BK/BN	6045	II	UGN	Steering Angle Sensor Low Reference	15	0.35	BK/BN	6045	VIII	UGN
16	-	-	-	-	-	Not Occupied	16	-	-	-	-	-
17	0.5	WH/D-BU	5986	I	-	Serial Data Communication Enable	17	0.5	WH/D-BU	5986	VI	-
18	0.5	D-BU	2500	II	-	High Speed GMLAN Serial Data (+) (1)	18	0.5	D-BU	2500	VII	-
19	0.5	WH	2501	II	-	High Speed GMLAN Serial Data (-) (1)	19	0.5	WH	2501	VII	-
20	0.5	VT/YE	5985	II	-	Accessory Wakeup Serial Data	20	0.5	VT/YE	5985	VII	-
21–23	-	-	-	-	-	Not Occupied	21–23	-	-	-	-	-
24	0.75	BN/YE	294	II	N08	Door Lock Actuator Unlock Control	24	0.75	BN/YE	294	X	N08
25	0.75	GY	5911	II	N08	Door Lock Actuator Lock Control 2	25	0.75	GY	5911	VII	N08
26-32	-	-	-	-	-	Not Occupied	26-32	-	-	-	-	-

26-32	-	-	-	-	-	Not Occupied	26-32	-	-	-	-	-
33	2.5	RD/D-BU	1842	III	Z85 or Z95	Battery Positive Voltage	33	2.5	RD/D-BU	1842	IX	Z85 or Z95
34	0.5	GY/L-GN	5996	II	BRS	Driver Outside Rear View Mirror Puddle Lamp Supply Voltage	34	0.5	GY/L-GN	5996	VII	BRS
35–38	-	-	-	-	-	Not Occupied	35–38	-	-	-	-	-
39	0.5	BN/WH	7462	II	BRS	Running Boards Disable Signal	39	0.35	D-BU/YE	6844	VIII	-
40	0.5	L-GN/GY	817	II	-	Vehicle Speed Signal	40	0.5	L-GN/GY	817	VII	-

X201 Steering Column Harness to Instrument Panel Harness





Connector Part Information

Harness Type: Steering Column

OEM Connector: 15509841

Service Connector: Service by Harness - See Part Catalog

Description: 42–Way F 1.2, 2.8 Series (GY)

Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13898445

Service Connector: 13586232

Description: 42-Way M 0.64, 2.8 Series (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	13575824	J-35616-5 (PU)	J-38125-11A	7114-4112-02	9	Not Available	Not Available
III	13575823	J-35616-5 (PU)	J-38125-11A	7114-4111-02	9	Not Available	Not Available
IV	13575821	J-35616-5 (PU)	J-38125-11A	7114-4110-02	9	E	C

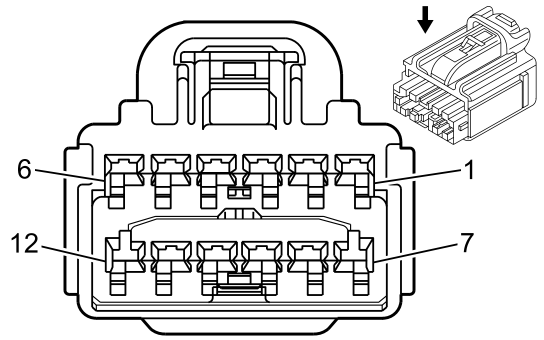
X201 Steering Column Harness to Instrument Panel Harness

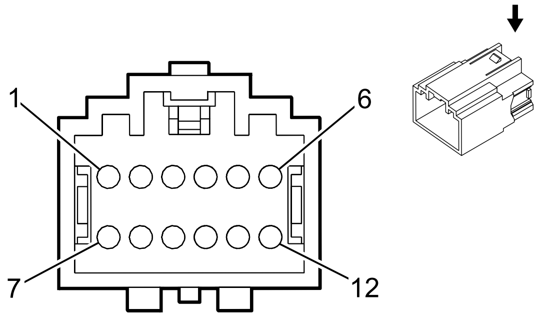
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	1.5	RD/VT	4640	I	N38	Battery Positive Voltage	1	1.5	RD/VT	4640	II	N38
2	1.5	BK	1850	I	N38	Ground	2	1.5	BK	1850	II	N38
3	0.35	VT/BK	3	I	BTM	Run/Crank Ignition 1 Voltage	3	0.35	VT/BK	3	I	BTM
4	0.5	RD/D-BU	540	I	without BTM	Battery Positive Voltage	4	0.5	RD/D-BU	540	I	-
5	0.35	BN/D-BU	391	I	-	Rear Window Wiper Switch Signal	5	0.35	BN/D-BU	391	I	-
6	0.35	L-GN/GY	3277	I	BTM	Vehicle Anti-Theft System Immobilizer Return	6	0.35	L-GN/GY	3277	I	BTM
7	0.35	L-GN/VT	7533	I	BTM	Linear Interconnect Network Bus 11	7	0.35	L-GN/VT	7533	I	BTM
8	0.35	GY/BK	3276	I	BTM	Vehicle Anti-Theft System Immobilizer Supply Voltage	8	0.35	GY/BK	3276	I	BTM
9	0.35	L-GN/BN	2087	I	-	Combined Vehicle	9	0.35	L-GN/BN	2087	I	-

9	0.35	L-GN/BN	2087	I	-	Combined Vehicle Inertial Sensor Supply Voltage	9	0.35	L-GN/BN	2087	I	-
10	0.5	D-BU/YE	6105	I	-	High Speed GMLAN Serial Data (+) (2)	10	0.5	D-BU/YE	6105	I	-
11	0.5	D-BU/YE	6105	I	-	High Speed GMLAN Serial Data (+) (2)	11	0.5	D-BU/YE	6105	I	-
12	0.35	GN	5060	I	BTM	Low Speed GMLAN Serial Data	12	0.35	GN	5060	I	BTM
13	-	-	-	-	-	Not Occupied	13	-	-	-	-	-
14	0.5	L-GN/WH	7530	I	N38	Linear Interconnect Network Bus 8	14	0.5	L-GN/WH	7530	I	N38
15	-	-	-	-	-	Not Occupied	15	-	-	-	-	-
16	0.35	L-GN/WH	111	I	-	Hazard Switch Signal	16	0.35	L-GN/WH	111	I	-
17	0.5	YE/WH	816	I	-	Brake Transmission Shift Interlock Solenoid Control	17	0.5	YE/WH	816	I	-
18	-	-	-	-	-	Not Occupied	18	-	-	-	-	-
19	0.35	L-GN/VT	1601	I	BTM	Steering Column Lock Signal	19	0.35	L-GN/VT	1601	I	BTM
20	1.5	BK	1050	I	-	Ground	20	1.5	BK	1050	I	-
21	0.75	RD/GY	4140	I	BTM	Battery Positive Voltage	21	0.75	RD/GY	4140	III	BTM
22	-	-	-	-	-	Not Occupied	22	-	-	-	-	-
23	0.75	D-BU/VT	807	I	BTM	OFF /Accessory Voltage	23	0.75	D-BU/VT	807	III	BTM
24	0.35	VT/YE	4	I	BTM	Accessory Voltage	24	0.35	VT/YE	4	I	BTM
25	0.35	RD/YE	3040	I	-	Battery Positive Voltage	25	0.35	RD/YE	3040	I	-
26-29	-	-	-	-	-	Not Occupied	26-29	-	-	-	-	-
30	0.5	OG	7527	I	X88 or Z88 with KA1 or KB6	Linear Interconnect Network Bus 5	30	0.5	L-GN/WH	7527	I	X88 or Z88 with KA1 or KB6
31	0.5	WH	6106	I	-	High Speed GMLAN Serial Data (-) (2)	31	0.5	WH	6106	I	-
32	0.5	WH	6106	I	-	High Speed GMLAN Serial Data (-) (2)	32	0.5	WH	6106	I	-
33	0.5	L-GN/BK	3894	I	UDD, UHS or UDV	Linear Interconnect Network Bus 12	33	0.5	L-GN/BK	3894	I	UDD, UHS or UDV
34-37	-	-	-	-	-	Not Occupied	34-37	-	-	-	-	-
38	0.35	BN	6136	I	-	Supply Voltage	38	0.35	BN	6136	I	-
39	0.35	GY/WH	5904	I	-	Steering Column Lock Status Signal	39	0.35	D-BU/VT	5904	I	-

						Status Signal					
40	0.35	WH/VT	1932	I	-	Shift Select Switch Park Signal	40	0.35	L-GN/WH	1932	I	-
41	0.5	VT/WH	1139	I	UVD	Run/Crank Ignition 1 Voltage	41	0.5	VT/WH	1139	IV	UVD
42	0.5	BK/WH	1851	I	-	Signal Ground	42	0.5	BK/WH	1851	IV	-

X203 Headliner Harness to Instrument Panel Harness





Connector Part Information

Harness Type: Headliner

OEM Connector: 13507762

Service Connector: Service by Harness — See Part Catalog

Description: 12-Way F YESC Kaizen Series (L-GY)

Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13507705

Service Connector: 88988266

Description: 12-Way M 1.5 Series (L-GY)

Terminal Part Information

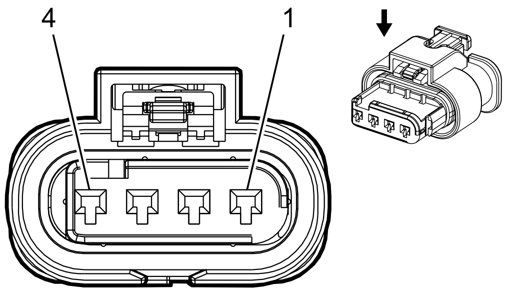
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575850	J-35616-2A (GY)	J-38125-11A	7116-4101-08	9	E	A
II	13575809	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	E	2
III	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
IV	13575816	J-35616-3 (GY)	J-38125-553	7114-4100-08	9	E	C

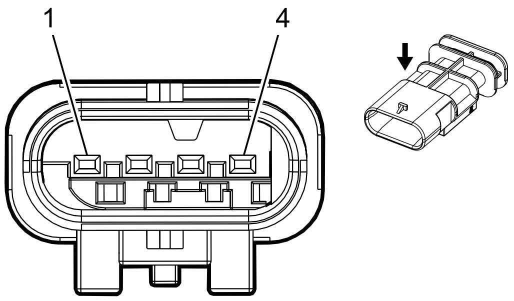
X203 Headliner Harness to Instrument Panel Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	BK	2550	I	U42	Ground	1	0.35	BK	2550	IV	U42
2	-	-	-	-	-	Not Occupied	2	-	-	-	-	-
3	0.35	BK/BN	654	II	-	Cellular Telephone Microphone Low Reference	3	0.35	BK/BN	654	IV	-
4	0.35	D-BU	655	II	-	Cellular Telephone Microphone Signal	4	0.35	D-BU	655	IV	-
5	0.5	RD/L-GN	1540	I	U42	Battery Positive Voltage	5	0.5	RD/L-GN	1540	III	U42
6	0.5	WH/D-BU	5986	II	UFL	Serial Data Communication Enable	6	0.5	WH/D-BU	5986	III	UFL
7	0.35	L-GN/YE	7531	III	AZ3	Linear Interconnect Network Bus 9	7	0.35	L-GN/YE	7531	III	AZ3
8	0.5	D-BU	2500	II	-	High Speed GMLAN Serial Data (+) (1)	8	0.5	D-BU	2500	III	-
9	0.5	WH	2501	II	-	High Speed GMLAN Serial Data (-) (1)	9	0.5	WH	2501	III	-

						Serial Data (-) (1)						
10	0.35	L-GN/YE	7066	I	U42	Entertainment Remote Enable Signal	10	0.35	L-GN/YE	7066	III	U42
11-12	-	-	-	-	-	Not Occupied	11-12	-	-	-	-	-

X205 Instrument Panel Harness to Passenger Air Bag Jumper Harness





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13854531

Service Connector: 13586137

Description: 4-Way F 1.2 Series, Sealed (YE)

Connector Part Information

Harness Type: Passenger Air Bag Jumper

OEM Connector: 13580146

Service Connector: Service by Harness - See Part Catalog

Description: 4–Way M 1.2 Series, Sealed (YE)

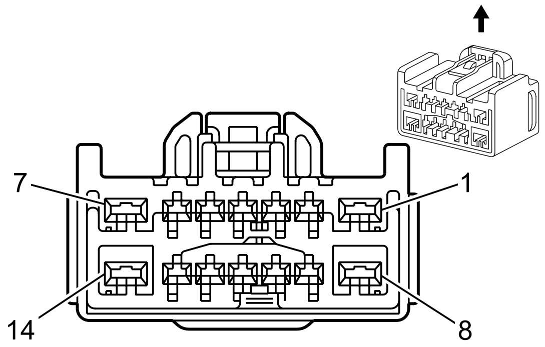
Terminal Part Information

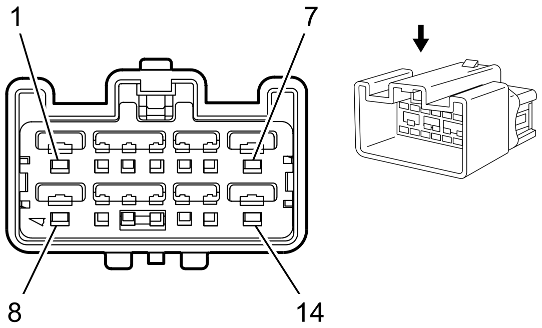
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-16 (L-GN)	J-38125-22	Not Available	Not Available	Not Available	Not Available
II	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X205 Instrument Panel Harness to Passenger Air Bag Jumper Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	YE/OG	3025	I	-	Passenger IP Module Stage 1 High Control	1	0.35	YE	3025	II	-
2	0.35	OG/WH	3024	I	-	Passenger IP Module Stage 1 Low Control	2	0.35	OG	3024	II	-
3	0.35	GY/OG	3027	I	-	Passenger IP Module Stage 2 High Control	3	0.35	GY	3027	II	-
4	0.35	OG/VT	3026	I	-	Passenger IP Module Stage 2 Low Control	4	0.35	PU	3026	II	-

X215 HVAC Harness to Instrument Panel Harness





Connector Part Information

Harness Type: HVAC

OEM Connector: 88988260

Service Connector: 88956524

Description: 14–Way F Hybrid Series (L-GY)

Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 10846900

Service Connector: 88956523

Description: 14-Way M Hybrid Series (L-GY)

Terminal Part Information

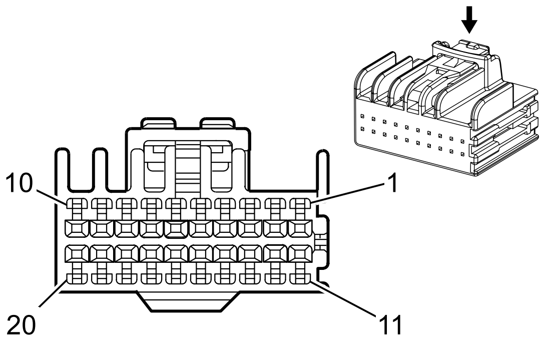
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	13587412	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	Not Available	Not Available
III	13575816	J-35616-3 (GY)	J-38125-553	7114-4100-08	9	E	C

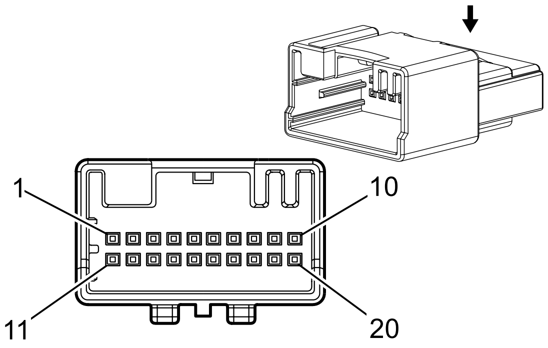
X215 HVAC Harness to Instrument Panel Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	-	-	-	-	Not Occupied	1	-	-	-	-	-
2	0.35	L-GN	5060	I	-	Low Speed GMLAN Serial Data	2	0.35	L-GN	5060	I	-
3	0.35	L-GN/YE	7531	I	-	Linear Interconnect Network Bus 9	3	0.35	L-GN/YE	7531	I	-
4	0.5	RD/VT	3340	I	-	Battery Positive Voltage	4	0.5	RD/VT	3340	I	-
5	0.5	VT/GY	539	I	-	Run/Crank Ignition 1 Voltage	5	0.5	VT/GY	539	I	-
6-8	-	-	-	-	-	Not Occupied	6-8	-	-	-	-	-
9	0.35	BK/WH	1851	I	-	Signal Ground	9	0.5	BK/WH	1851	I	
10	0.35	BK/YE	1791	I	-	Air Temperature Door Control Low Reference	10	0.35	BK/YE	1791	I	-
11	0.35	D-BU/WH	734	I	-	Inside Air Temperature Sensor Signal	11	0.35	D-BU/WH	734	II	-
12	0.35	GY	590	I	-	Solar Sensor Driver Signal	12	-	-	-	-	-

13	0.35 0.35	YE/VT YE/VT	1783 1783	I	-	Twilight Sentinel Delay Signal	13	0.35	YE/VT	1783	I	-
14	-	-	-	-	-	Not Occupied	14	-	-	-	-	-

X216 Body Harness to HVAC Harness





Connector Part Information

Harness Type: Body

OEM Connector: 13899026

Service Connector: Not Available

Description: 20-Way F 0.64 YESC Series (L-GY)

Connector Part Information

Harness Type: HVAC

OEM Connector: 13534928

Service Connector: 88988270

Description: 20–Way M 0.64 Series (GY)

Terminal Part Information

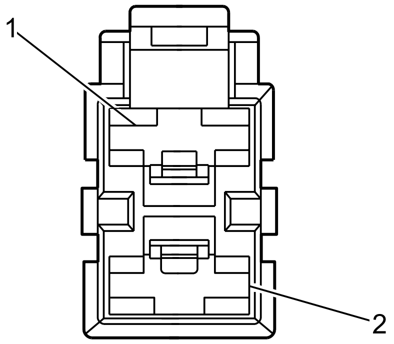
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575847	J-35616-64B (L-BU)	J-38125-553	7116-4720-02	14	H	H
II	13575838	J-35616-64B (L-BU)	J-38125-553	7116-4721-02	14	J	J
III	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

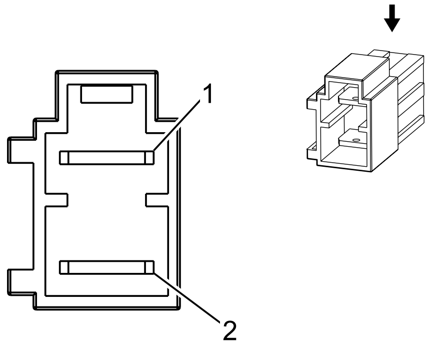
X216 Body Harness to HVAC Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1-5	-	-	-	-	-	Not Occupied	1-5	-	-	-	-	-
6	0.5	D-BU/YE	7574	II	-	Electric Variable Displacement Control	6	0.5	D-BU/YE	7574	III	-
7	0.5	D-BU/BN	7573	II	-	Electric Variable Displacement Supply	7	0.5	D-BU/BN	7573	III	-
8	0.35	BK/YE	407	I	-	Sensor Low Reference	8	0.35	BK/YE	407	III	-
9	0.35	BN/BK	405	I	-	Lower Air Temperature Sensor Signal	9	0.35	BN/BK	405	III	-
10	0.35	BN	404	I	-	Upper Air Temperature Sensor Signal	10	0.35	BN	404	III	-
11	-	-	-	-	-	Not Occupied	11	-	-	-	-	-
12	0.35	L-GN/BK	2211	I	-	Rear Blower Motor Speed Control	12	0.35	L-GN/BK	2211	III	-
13	0.35	BN/VT	193	II		Rear Defog Relay Control	13	0.5	BN/VT	193	III	-
14	0.35	GY/RD	598	I	-	5 Volt Reference	14	0.35	GY/RD	598	III	-

15	0.35	GY/D-BU	2145	I	-	Passenger Air Temperature Switch Signal	15	0.35	GY/D-BU	2145	III	-
16	0.35	GY	2614	I	-	Rear Air Temperature Door Control	16	0.35	GY	2614	III	-
17	0.35	WH/BN	2775	I	-	Rear Air Temperature Motor Control	17	0.35	WH/BN	2775	III	-
18	0.35	GY	2599	I	-	Rear Mode Motor Signal	18	0.35	GY	2599	III	-
19	0.35	BK/L-GN	5730	I	-	Rear Mode Motor Low Reference	19	0.35	BK/L-GN	5730	III	-
20	0.35	L-GN/WH	5729	I	-	Rear Mode Motor Supply Voltage	20	0.35	L-GN/WH	5729	III	-

X217 Body Harness to HVAC Harness





Connector Part Information

Harness Type: Body

OEM Connector: 10721337

Service Connector: 88953301

Description: 2-Way F 375 Series (BK)

Connector Part Information

Harness Type: HVAC

OEM Connector: 13581073

Service Connector: Service by Harness - See Part Catalog

Description: 2–Way M 375 Series (BK)

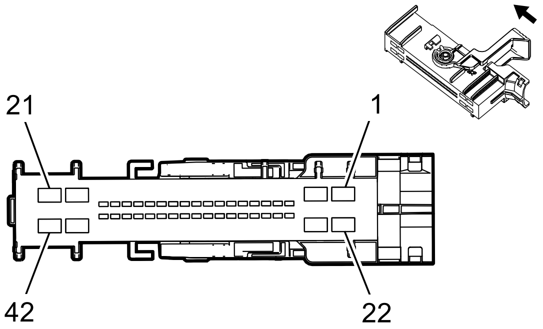
Terminal Part Information

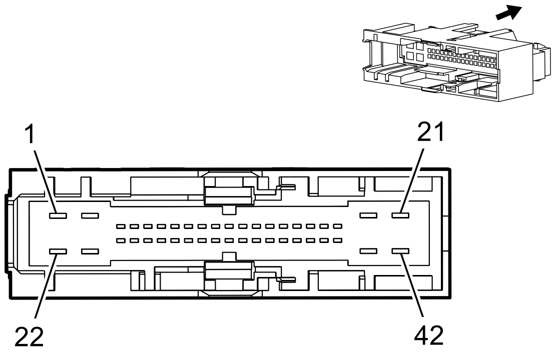
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-22 (RD)	J-38125-11A	7116-3250	10	G	3
II	Not Available	J-35616-22 (RD)	J-38125-11A	7116-3250	10	Not Available	Not Available
III	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X217 Body Harness to HVAC Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	4	RD/VT	542	I	-	Battery Positive Voltage	1	4	RD/VT	542	III	-
2	-	-	-	-	-	Not Occupied	2	-	-	-	-	-

X225 Body Harness to Instrument Panel Harness





Connector Part Information

Harness Type: Body

OEM Connector: 13898441

Service Connector: 19301820

Description: 42-Way F 1.2, 2.8 Series (GY)

Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13898444

Service Connector: 13586233

Description: 42-Way M 0.64, 2.8 Series (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13580025	J-35616-35 (VT)	J-38125-11A	7116-4111-02	9	E	A
II	Not Available	J-35616-22 (RD)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
III	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
IV	Not Available	J-35616-35 (VT)	J-38125-11A	7116-4112-02	9	Not Available	Not Available
V	13575821	J-35616-5 (PU)	J-38125-11A	7114-4110-02	9	E	C

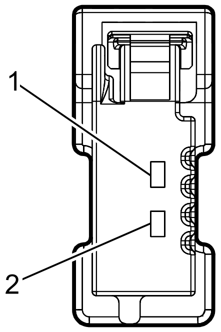
X225 Body Harness to Instrument Panel Harness

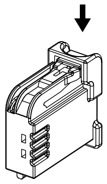
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	YE/GY	1956	I	UQA, UQH or UQS	Left Front Tweeter Speaker (-)	1	0.75	YE/GY	1956	III	UQA, UQH or UQS
2	1.5	BK	1850	III	-	Ground	2	0.75	BK	1850	III	-
3	0.5	L-GN/WH	7530	II	N38	Linear Interconnect Network Bus 8	3	0.5	L-GN/WH	7530	III	N38
4	0.5	WH/BN	6815	II	D07 without DCK	Inadvertent Power Control	4	0.5	WH/BN	6815	III	D07 without DCK
5	0.35	GY/WH	3272	II	-	Remote Function Actuator Supply Voltage	5	0.35	GY/WH	3272	III	-
6	0.35	D-BU/WH	3275	II	-	Remote Function Actuator Receive Signal	6	0.35	D-BU/WH	3275	III	-
7	0.35	VT/YE	43	II	K4C	Accessory Voltage	7	0.35	VT/YE	43	III	K4C
8	0.5	GY/VT	3998	II		MOST Serial Data (+)	8	0.5	GY/VT	3998	III	-

8	0.5	GY/VT	3998	II		MOST Serial Data (+)	8	0.5	GY/VT	3998	III	-
9	0.35	BN/BK	3552	II	ATH	Passive Start Interior Antenna 1 Signal Hi	9	0.35	BN/BK	3552	III	ATH
10	0.35	WH	3553	II	ATH	Passive Start Interior Antenna 1 Signal Lo	10	0.35	WH	3553	III	ATH
11	0.5	WH/L-GN	3997	II	-	MOST Serial Data (-)	11	0.5	WH/L-GN	3997	III	-
12	0.5	BN/D-BU	118	II	UQ3	Left Front Speaker Signal (-) (1)	12	0.5	BN/D-BU	118	III	UQ3
13	0.35	BK/GY	3559	II	BTM	Passive Start Switch 2 Low Reference	13	0.35	BK/GY	3559	III	BTM
14	0.5	L-GN	199	II	UQ3	Left Rear Speaker (+)	14	0.5	L-GN	199	III	UQ3
15	0.5	D-BU/VT	3813	II	UGN with Z75	High Speed GMLAN Serial Data (+) (4)	15	0.5	D-BU/VT	3813	III	UGN with Z75
16	0.5	WH	3811	II	UGN with Z75	High Speed GMLAN Serial Data (-) (4)	16	0.5	WH	3811	III	UGN with Z75
17	0.35	VT/BK	3	III	BTM	Run/Crank Ignition 1 Voltage	17	0.35	VT/BK	3	III	BTM
18	0.35	VT/YE	4	II	BTM	Accessory Voltage	18	0.35	VT/YE	4	III	BTM
19	-	-	-	-	-	Not Occupied	19	-	-	-	-	-
20	0.75 0.5	BN/D-BU BN/D-BU	118 118	III	UQ3	Left Front Speaker Signal (-) (1) Left Front Speaker Signal (-) (1)	20	0.75	BN/D-BU	118	III	UQ3
21	0.35	L-GN/BK	3558	III	BTM	Passive Start Switch Signal 2	21	0.35	L-GN/BK	3558	V	BTM
22	0.75	YE/D-BU	1856	I	UQA, UQH or UQS	Left Front Tweeter Speaker (+)	22	0.75	YE/D-BU	1856	III	UQA, UQH or UQS
23	0.35	L-GN	4512	III	K4C	Wireless Charging System Charge Indicator Control	23	0.35	L-GN	4512	III	K4C
24	-	-	-	-	-	Not Occupied	24	-	-	-	-	-
25	0.35	BN/WH	419	II	-	Check Engine Indicator Control	25	0.35	BN/WH	419	III	-
26	0.35	YE/L-GN	3274	II	-	Remote Function Actuator Transmit Signal	26	0.35	YE/L-GN	3274	III	-
27	0.35	GY	3273	II	-	Remote Function Actuator Return	27	0.35	GY	3273	III	-
28	0.5	BK	1850	II	-	Ground	28	0.5	BK	1850	III	
29	0.5	WH/L-GN	3997	II		MOST Serial Data (-)	29	0.5	WH/L-GN	3997	III	-
30	0.35	D-BU/VT	1134	II	J71	Park Brake Switch	30	0.35	D-BU/VT	1134	III	J71

30	0.35	D-BU/VT	1134	II	J71	Park Brake Switch Signal	30	0.35	D-BU/VT	1134	III	J71
31	0.35	GY/RD	7684	II	J71	Park Brake Apply Switch Voltage Reference	31	0.35	GY/RD	7684	III	J71
32	0.5	GY/VT	3998	II	-	MOST Serial Data (+)	32	0.5	GY/VT	3998	III	-
33	0.5	D-BU	201	II	UQ3	Left Front Speaker (+) (1)	33	0.5	D-BU	201	III	UQ3
34	0.35	BN	6107	II	J71	Park Brake Apply Switch Signal	34	0.35	BN	6107	III	J71
35	0.5	L-GN/BK	116	II	UQ3	Left Rear Speaker Signal (-)	35	0.5	L-GN/BK	116	III	UQ3
36	0.35	D-BU/BK	6108	II	J71	Park Brake Release Switch Signal	36	0.35	D-BU/BK	6108	III	J71
37	0.35	YE/RD	7683	II	J71	Park Brake Release Switch Voltage Reference	37	0.35	YE/RD	7683	III	J71
38	0.35	L-GN/BN	2087	II	-	Combined Vehicle Inertial Sensor Supply Voltage	38	0.35	L-GN/BN	2087	III	-
39	0.35	YE	1492	II	J71	Park Brake Switch Supply Voltage	39	0.35	YE	1492	III	J71
40	0.5	L-GN/GY	6135	II	-	Linear Interconnect Network Bus 4	40	0.5	L-GN/GY	6135	III	-
41	0.5 0.75	D-BU D-BU	201 201	III	UQ3	Left Front Speaker (+) (1) Left Front Speaker (+) (1)	41	0.75	D-BU	201	III	UQ3
42	0.35 0.35	D-BU/YE D-BU/YE	6844 6844	III	BRS JHD	ABS/TCS Hill Descent Control Switch Signal ABS/TCS Hill Descent Control Switch Signal	42	0.35	D-BU/YE	6844	III	-

X260 Instrument Panel Harness to Glove Box Jumper Harness





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13608099

Service Connector: 13314097

Description: 2-Way F 1.5 Series (GY)

Connector Part Information

Harness Type:

OEM Connector:

Service Connector: Service by Harness - See Part Catalog

Description: 2 M

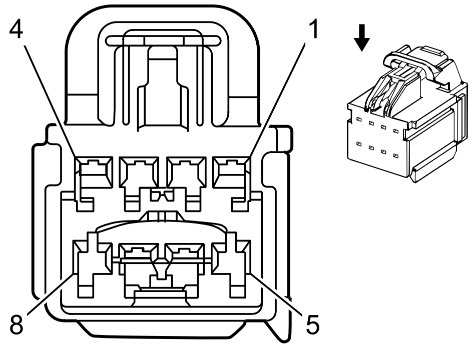
Terminal Part Information

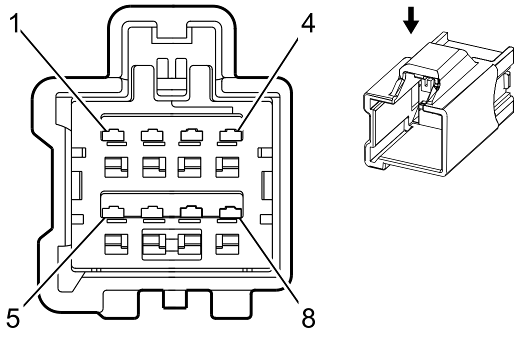
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575790	J-35616-2A (GY)	J-38125-553	15496302	5	E	A
II	13575790	J-35616-2A (GY)	J-38125-553	15496302	5	2	A
III	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X260 Instrument Panel Harness to Glove Box Jumper Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	BN/GY	4048	I	-	Glove Box Door Release Control	1	0.5	BN/GY	4048	III	-
2	1	BK	1050	II	-	Ground	2	1	BK	1050	III	-

X271 Instrument Panel Harness to Instrument Panel Harness (5W4 or 9C1)





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 10846802

Service Connector: 19153166

Description: 8-Way F 1.5 Kaizen YESC Series (L-GY)

Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 10847035

Service Connector: Not Available

Description: 8-Way M 1.5 Kaizen YESC Series (L-GY)

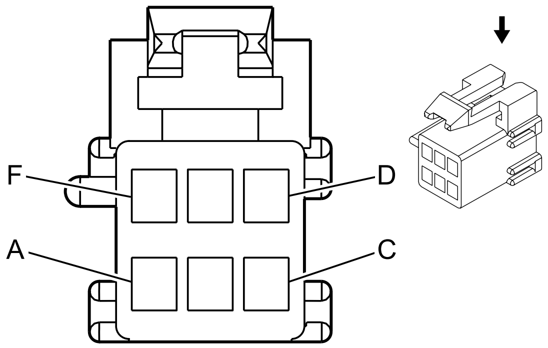
Terminal Part Information

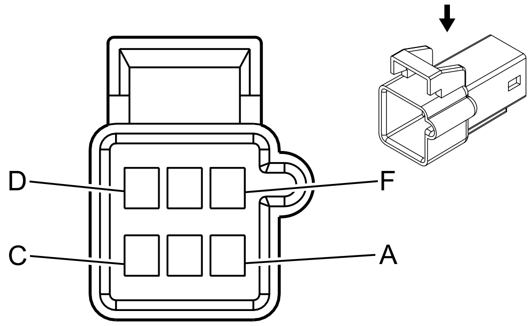
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	13575708	J-35616-2A (GY)	J-38125-11A	7116-4101-08	9	E	A
III	Not Available	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
IV	13575816	J-35616-3 (GY)	J-38125-553	7114-4100-08	9	E	C

X271 Instrument Panel Harness to Instrument Panel Harness (5W4 or 9C1)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	BN/D-BU	118	I	-	Left Front Speaker Signal (-) (1)	1	0.75	BN/D-BU	118	III	-
2	0.75	YE/BK	117	I	-	Right Front Speaker Signal (-) (1)	2	0.75	YE/BK	117	III	-
3	0.75	L-GN/BK	116	I		Left Rear Speaker Signal (-)	3	0.75	L-GN/BK	116	IV	
4	0.75	D-BU/BK	115	I		Right Rear Speaker Signal (-)	4	0.75	D-BU/BK	115	IV	
5	0.75	D-BU	201	I	-	Left Front Speaker (+) (1)	5	0.75	D-BU	201	III	-
6	0.75	YE	200	I	-	Right Front Speaker (+) (1)	6	0.75	YE	200	III	-
7	0.75	L-GN	199	I		Left Rear Speaker (+)	7	0.75	L-GN	199	IV	
8	0.75	WH	46	I		Right Rear Speaker (+)	8	0.75	WH	46	IV	

X272 Instrument Panel Harness to Upfitter Jumper (6J3 or 6J7)





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12064762

Service Connector: 13583923

Description: 6-Way F 150 Metri Pack Series (GY)

Connector Part Information

Harness Type: Upfitter Jumper

OEM Connector: 12064763

Service Connector: 12101876

Description: 6–Way M 150 Metri-Pack Series (GY)

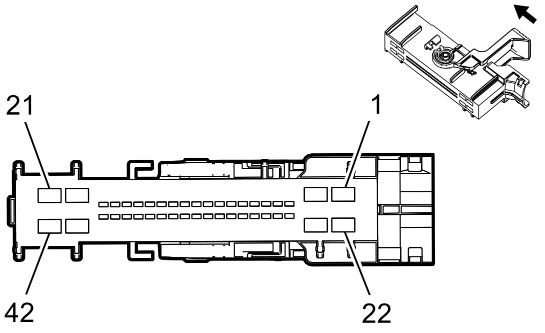
Terminal Part Information

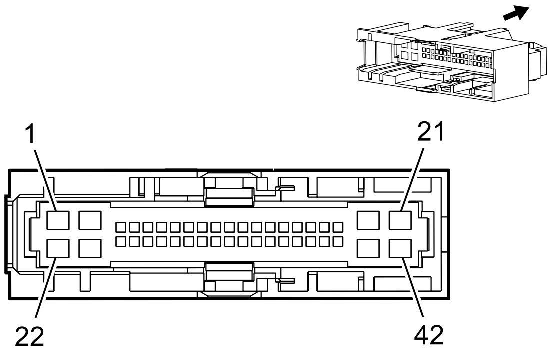
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-14 (GN)	J-38125-12A	15326030	2	E	A
II	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X272 Instrument Panel Harness to Upfitter Jumper (6J3 or 6J7)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.75	L-GN	6820	I	-	Exterior Lamp Flasher Signal	A	0.75	L-GN	6820	II	-
B	0.75	D-BU/L-GN	6837	I	-	Siren #1 Supply	B	0.75	D-BU/L-GN	6837	II	-
C	0.75	L-GN/YE	6836	I	-	Siren #2 Supply	C	0.75	L-GN/YE	6836	II	-
D	0.75	GY/VT	6838	I	-	Front Emergency Flasher Control	D	0.75	GY/VT	6838	II	-
E	0.75	YE/L-GN	6835	I	-	Front Emergency Lamp Supply Voltage	E	0.75	YE/L-GN	6835	II	-
F	-	-	-	-	-	Not Occupied	F	-	-	-	-	-

X275 Instrument Panel Harness to Body Harness





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13898440

Service Connector: Not Available

Description: 42-Way F 1.2, 2.8 Series (YE)

Connector Part Information

Harness Type: Body

OEM Connector: 13898442

Service Connector: 13586434

Description: 42-Way M 0.64, 2.8 Series (YE)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	Not Available	J-35616-22 (RD)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
III	13582232	J-35616-16 (L-GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
IV	13575790	J-35616-2A (GY)	J-38125-553	15496302	5	2	A
V	13580025	J-35616-35 (VT)	J-38125-11A	7116-4111-02	9	E	A
VI	Not Available	J-35616-42 (RD)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
VII	13575823	J-35616-5 (PU)	J-38125-11A	7114-4111-02	9	Not Available	Not Available

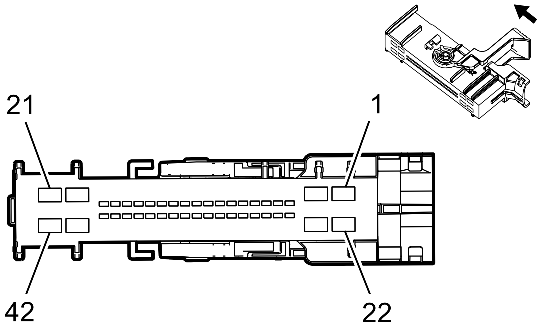
X275 Instrument Panel Harness to Body Harness

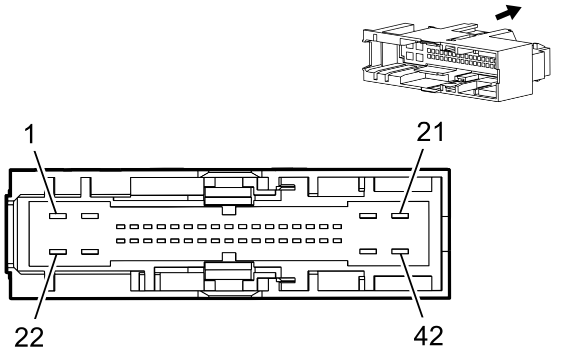
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	VT/BN	1952	I	UQA, UQH or UQS	Right Front Tweeter Speaker (-)	1	0.75	VT/BN	1952	I	UQA, UQH or UQS
2	1.5	VT/YE	143	I	D07	Accessory Voltage	2	1.5	VT/YE	143	VI	D07
3	0.35	D-BU	2060	II	AZ3	Auxiliary Detection Signal	3	0.35	D-BU	2060	I	AZ3
4	0.5	Bare	5842	II	AZ3	Auxiliary Audio Screen (2)	4	0.5	Bare	5842	I	AZ3
5	0.35	VT	5843	II	AZ3	Auxiliary Audio Common Signal	5	0.35	VT	5843	I	AZ3
6	0.35	GY	5839	II	AZ3	Left Auxiliary Audio Signal (2)	6	0.35	GY	5839	I	AZ3
7	0.35	L-GN	5841	II	AZ3	Right Auxiliary Audio	7	0.35	L-GN	5841	I	AZ3

7	0.35	L-GN	5841	II	AZ3	Right Auxiliary Audio Signal (2)	7	0.35	L-GN	5841	I	AZ3
8	0.35	GY/YE	6972	II	UVC or UVH	Camera Signal #2 +	8	0.35	GY/YE	6972	I	UVC or UVH
9	0.35	WH/D-BU	6973	II	UVC or UVH	Camera Signal #2	9	0.35	WH/D-BU	6973	I	UVC or UVH
10	0.75	D-BU/YE	1960	I	UQH or UQS	Front Center Speaker (-)	10	0.75	D-BU/YE	1960	I	UQH or UQS
11	0.35	WH/VT	3999	II	-	MOST Control	11	0.35	WH/VT	3999	I	-
12	0.5	YE/BK	117	II	UQ3	Right Front Speaker Signal (-) (1)	12	0.5	YE/BK	117	I	UQ3
13	-	-	-	-	-	Not Occupied	13	-	-	-	-	-
14	0.5	WH	46	II	UQ3	Right Rear Speaker (+)	14	0.5	WH	46	I	UQ3
15	0.35	YE/OG	3025	III	-	Passenger IP Module Stage 1 High Control	15	0.35	YE/OG	3025	I	-
16	0.35	OG/WH	3024	III	-	Passenger IP Module Stage 1 Low Control	16	0.35	OG/WH	3024	I	-
17	0.35	GY/OG	3027	III	-	Passenger IP Module Stage 2 High Control	17	0.35	GY/OG	3027	I	-
18	0.35	OG/VT	3026	III	-	Passenger IP Module Stage 2 Low Control	18	0.35	OG/VT	3026	I	-
19	0.35	WH/VT	4108	II	Z75	Driver Mode Switch Signal	19	0.35	WH/VT	4108	I	Z75
20	0.75	YE/BK	117	I	UQ3	Right Front Speaker Signal (-) (1) Right Front Speaker Signal (-) (1)	20	0.5 0.5	YE/BK YE/BK	117 117	I	UQ3
21	1.5	VT/YE	243	I	AZ3	Accessory Voltage	21	1.5	VT/YE	243	VI	AZ3
22	0.75	BN/L-GN	1852	I	UQA, UQH or UQS	Right Front Tweeter Speaker (+)	22	0.75	BN/L-GN	1852	I	UQA, UQH or UQS
23	0.5	WH/D-BU	5986	I	IO5, IO6, UE1 or UFL	Serial Data Communication Enable	23	0.5	WH/D-BU	5986	I	IO5, IO6, UE1 or UFL
24	0.5	WH/YE	7557	II	-	LED Ambient Lighting Control 1	24	0.35	WH/YE	7557	I	-
25	0.5	L-GN	5060	II	-	Low Speed GMLAN Serial Data	25	0.5	L-GN	5060	I	-
26	0.35	L-GN/WH	1932	II	BTM or JF4	Shift Select Switch Park Signal	26	0.35	L-GN/WH	1932	I	BTM or JF4
27	0.35	D-BU	3554	II	ATH	Passive Start Interior Antenna 2 Signal Hi	27	0.35	D-BU	3554	I	ATH
28	0.35	GY/BK	3555	II	ATH	Passive Start Interior Antenna 2 Signal Lo	28	0.35	GY/BK	3555	I	ATH
29	0.35	Bare	6974	II	UVC or UVH	Camera Drain Wire	29	0.35	Bare	6974	I	UVC or UVH
30	0.35	YE	6812	II	ATN , ATT or JF4	Out of Park Signal	30	0.35	YE	6812	I	ATN , ATT or JF4

30	0.35	YE	6812	II	ATN , ATT or JF4	Out of Park Signal	30	0.35	YE	6812	I	ATN , ATT or JF4
31	0.75	YE/WH	1860	I	UQH or UQS	Front Center Speaker (+)	31	0.75	YE/WH	1860	I	UQH or UQS
32	-	-	-	-	-	Not Occupied	32	-	-	-	-	-
33	0.5	YE	200	II	UQ3	Right Front Speaker (+) (1)	33	0.5	YE	200	I	UQ3
34	0.75	D-BU/L-GN	6841	I	6J7	Rear Lamp Flasher Signal	34	0.75	D-BU/L-GN	6841	I	6J7
35	0.5	D-BU/BK	115	II	UQ3	Right Rear Speaker Signal (-)	35	0.5	D-BU/BK	115	I	UQ3
36	0.75 0.35	L-GN D-BU/OG	6820 7328	I I	6J7 C9I	Exterior Lamp Flasher Signal Passenger IP Module Disable Switch Return	36	0.75 0.35	L-GN D-BU/OG	6820 7328	I I	6J7 -
37	0.75 0.35	D-BU/L-GN VT/OG	6837 371	II II	6J7 C9I	Siren #1 Supply Passenger IP Module Disable Switch Signal	37	0.75 0.35	D-BU/L-GN VT/OG	6837 371	I I	6J7 -
38	0.75	L-GN/YE	6836	I	6J3	Siren #2 Supply	38	0.75	L-GN/YE	6836	I	6J3
39	0.75	GY/VT	6838	I	6J3	Front Emergency Flasher Control	39	0.75	GY/VT	6838	I	6J3
40	0.75	YE/L-GN	6835	I	6J3	Front Emergency Lamp Supply Voltage	40	0.75	YE/L-GN	6835	I	6J3
41	0.75	YE	200	I	UQ3	Right Front Speaker (+) (1)	41	0.75 0.5	YE YE	200 200	I	UQ3
42	-	-	-	-	-	Not Occupied	42	-	-	-	-	-

X300 Instrument Panel Harness to Floor Console Harness (D07)





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13898441

Service Connector: 19301820

Description: 42-Way F 1.2, 2.8 Series (GY)

Connector Part Information

Harness Type: Floor Console

OEM Connector: 13898444

Service Connector: 13586233

Description: 42-Way M 0.64, 2.8 Series (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	Not Available	J-35616-22 (RD)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
III	13575824	J-35616-5 (PU)	J-38125-11A	7114-4112-02	9	Not Available	Not Available
IV	13575821	J-35616-5 (PU)	J-38125-11A	7114-4110-02	9	E	C
V	13575823	J-35616-5 (PU)	J-38125-11A	7114-4111-02	9	Not Available	Not Available
VI	13575824	J-35616-5 (PU)	J-38125-11A	7114-4112-02	9	C	D

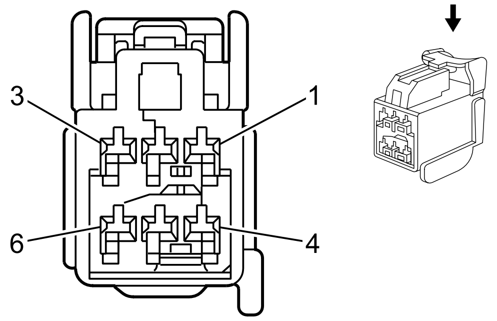
X300 Instrument Panel Harness to Floor Console Harness (D07)

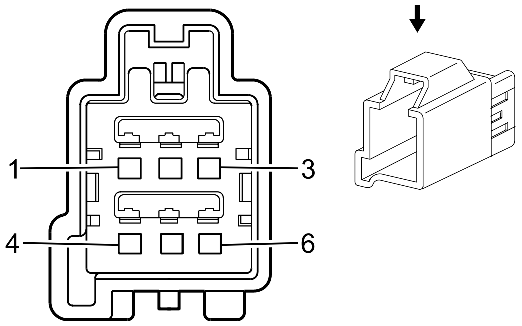
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	1.5	RD/D-BU	243	I	-	Accessory Voltage	1	1.5	RD/D-BU	243	III	-
2	1.5	RD/GY	143	I	-	Accessory Voltage	2	1.5	RD/GY	143	IV	
3	0.35	BK/WH	1851	II	-	Signal Ground	3	0.35	BK/WH	1851	I	-
4	0.35	D-BU	2060	II	-	Auxiliary Detection Signal	4	0.35	D-BU	2060	I	-
5	0.35	BK	2550	II	-	Ground	5	0.35	BK	2550	I	-
6	0.35 0.35	BK WH	2550 6816	II	without DCK DCK	Ground Indicator Dimming Control	6	0.35 0.5	BK WH	2550 6816	I	without DCK DCK
7	0.35	VT/YE	43	II	-	Accessory Voltage	7	0.35	VT/YE	43	I	K4C
8	0.35	VT/L-GN	1739	II		Run/Crank Ignition 1 Voltage	8	0.5	VT/L-GN	1739	I	

						Voltage					
9	0.35	BK	1850	I		Ground	9	0.35	BK	1850	I	-
10	0.35	L-GN/YE	7531	II	-	Linear Interconnect Network Bus 9	10	0.35	L-GN/YE	7531	I	-
11	0.5	L-GN/WH	7527	II	X88 or Z88 with KA1 or KB6	Linear Interconnect Network Bus 5	11	0.5	L-GN/WH	7527	I	X88 or Z88 with KA1 or KB6
12	0.35	D-BU	3554	II	ATH	Passive Start Interior Antenna 2 Signal Hi	12	0.35	D-BU	3554	I	ATH
13	0.5	Bare	5842	II	-	Auxiliary Audio Screen (2)	13	0.5	Bare	5842	I	-
14	0.35	VT	5843	II	-	Auxiliary Audio Common Signal	14	0.35	VT	5843	I	-
15	0.5	Bare	2057	II	U42	Auxiliary Video Low Signal	15	0.5	Bare	2057	I	U42
16	0.35	L-GN/WH	3355	II	U42	Left Rear Seat Audio Headphone Signal	16	0.35	L-GN/WH	3355	I	U42
17	0.5	Bare	3354	II	U42	Rear Seat Audio Headphone Drain Wire	17	0.5	Bare	3354	I	U42
18	0.35	YE	2059	II	U42	Left Auxiliary Audio Signal (1)	18	0.35	YE	2059	I	U42
19	0.5	Bare	5345	II	U42	Auxiliary Audio Drain Wire (1)	19	0.5	Bare	5345	I	U42
20	1.5	RD/WH	1040	I	-	Battery Positive Voltage	20	1.5	RD/WH	1040	III	-
21	0.5	VT/BK	739	I	DCK	Run/Crank Ignition 1 Voltage	21	0.5	VT/BK	739	I	DCK
22	1.5	BK	1050	I	-	Ground	22	1.5	BK	1050	III	-
23	2.5	BK	1050	I	-	Ground	23	2.5	BK	1050	III	
24	0.75	RD/VT	340	I	U42	Battery Positive Voltage	24	0.75	RD/VT	340	I	U42
25	0.5	VT/BN	300	II	KI4 or KI5	Run Ignition 3 Voltage	25	0.5	VT/BN	300	I	KI4 or KI5
26	0.35	D-BU/BN	6807	II	KI4 or KI5	DC To AC Inverter Control	26	0.35	D-BU/BN	6807	I	KI4 or KI5
27	0.35	RD/GY	2840	II	X88 or Z88 with KA1 or KB6	Battery Positive Voltage	27	0.35	RD/GY	2840	I	X88 or Z88 with KA1 or KB6
28	0.5	WH/BN	6815	II	without DCK	Inadvertent Power Control	28	0.5	WH/BN	6815	I	without DCK
29	0.35	L-GN	4512	II	K4C	Wireless Charging System Charge Indicator Control	29	0.35	L-GN	4512	I	K4C
30	0.35	L-GN/GY	3277	II	BTM	Vehicle Anti-Theft System Immobilizer Return	30	0.35	L-GN/GY	3277	I	BTM

						Return					
31	0.35	L-GN/VT	7533	II	BTM	Linear Interconnect Network Bus 11	31	0.35	L-GN/VT	7533	I	BTM
32	0.35	GY/BK	3276	II	BTM	Vehicle Anti-Theft System Immobilizer Supply Voltage	32	0.35	GY/BK	3276	I	BTM
33	0.35	GY/BK	3555	II	ATH	Passive Start Interior Antenna 2 Signal Lo	33	0.35	GY/BK	3555	I	ATH
34	0.35	L-GN	5841	II	-	Right Auxiliary Audio Signal (2)	34	0.35	L-GN	5841	I	-
35	0.35	GY	5839	II	-	Left Auxiliary Audio Signal (2)	35	0.35	GY	5839	I	-
36	0.35	YE	2056	II	U42	Auxiliary Video High Signal	36	0.35	YE	2056	I	U42
37	0.35	BN/GY	3357	II	U42	Right Rear Seat Audio Headphone Signal	37	0.35	BN/GY	3357	I	U42
38	0.35	D-BU/VT	3356	II	U42	Rear Seat Audio Headphone Common Signal	38	0.35	D-BU/VT	3356	I	U42
39	0.35	WH	2058	II	U42	Right Auxiliary Audio Signal (1)	39	0.35	WH	2058	I	U42
40	0.35	BN	3374	II	U42	Auxiliary Audio Common Signal (2)	40	0.35	BN	3374	I	U42
41	0.35	YE	6817	I	DCK	LED Backlight Dimming Control	41	0.5	YE	6817	I	DCK
42	0.75	RD/VT	340	I	-	Battery Positive Voltage	42	0.75	RD/VT	340	V	-

X306 Instrument Panel Harness to Floor Console Harness (KI4 or KI5, with D07)





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 10846805

Service Connector: Not Available

Description: 6-Way F 1.5 Kaizen Series (L-GY)

Connector Part Information

Harness Type: Floor Console

OEM Connector: 10846804

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way M 1.5 Series (L-GY)

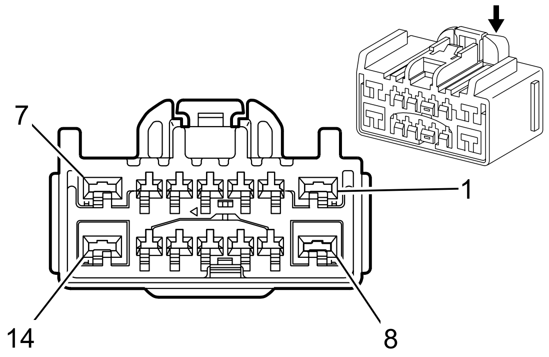
Terminal Part Information

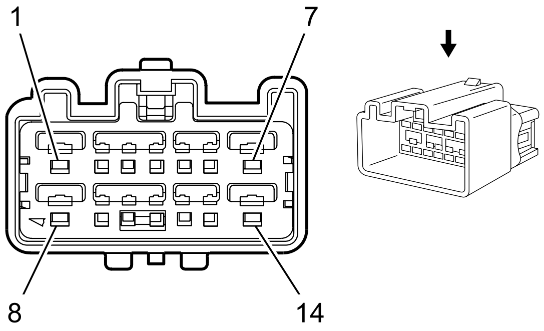
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X306 Instrument Panel Harness to Floor Console Harness (KI4 or KI5, with D07)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75 0.75	BK BK	5683 5683	I	KI4 KI5	120 VAC Phase A 230 VAC Phase A	1	0.75 0.75	BK BK	5683 5683	I	KI4 KI5
2	0.75 0.75	RD RD	5684 5684	I	KI4 KI5	120 VAC Phase B 230 VAC Phase B	2	0.75 0.75	RD RD	5684 5684	I	KI4 KI5
3	0.5	BK/WH	514	I		Drain Wire	3	0.5	BK/WH	514	I	-
4-6	-	-	-	-	-	Not Occupied	4-6	-	-	-	-	-

X307 Floor Console Harness to Floor Console Harness (X88 or Z88 with D07)





Connector Part Information

Harness Type: Floor Console

OEM Connector: 15452737

Service Connector: Service by Harness - See Part Catalog

Description: 14-Way F 1.5, 2.8 Series (BK)

Connector Part Information

Harness Type: Floor Console

OEM Connector: 15452738

Service Connector: Service by Harness - See Part Catalog

Description: 14–Way M 1.5, 2.8 Series (BK)

Terminal Part Information

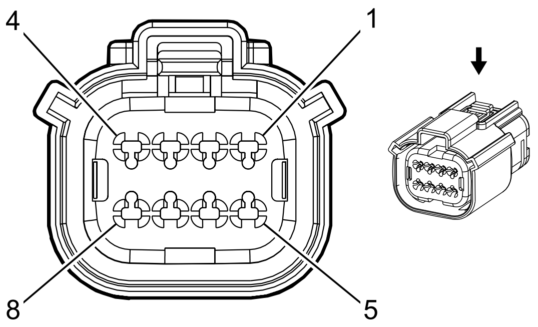
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575295	J-35616-35 (VT)	J-38125-11A	7116-4112-02	9	Not Available	Not Available
II	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
III	Not Available	J-35616-35 (VT)	J-38125-12A	1326030-6	17	E	C
IV	13575838	J-35616-35 (VT)	J-38125-11A	7116-4111-02	9	E	A
V	13587412	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	Not Available	Not Available
VI	13587410	J-35616-3 (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available

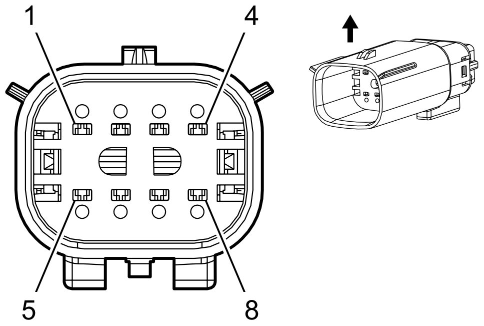
X307 Floor Console Harness to Floor Console Harness (X88 or Z88 with D07)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	1.5	RD/WH	1040	I	-	Battery Positive Voltage	1	1.5	RD/WH	1040	II	-
2	0.35	RD/GY	2840	II	KA1 or KB6	Battery Positive Voltage Battery Positive Voltage	2	0.35 0.35	RD/GY RD/GY	2840 2840	II	KA1 or KB6
3	0.5	L-GN/WH	7527	II	KA1 or KB6	Linear Interconnect Network Bus 5 Linear Interconnect Network Bus 5	3	0.5 0.5	L-GN/WH L-GN/WH	7527 7527	II	KA1 or KB6
4	0.35	D-BU	2060	II	IO3	Auxiliary Detection Signal	4	0.35	D-BU	2060	II	IO3
5	0.5	YE	6817	II	DCK	LED Backlight Dimming Control	5	0.5	YE	6817	II	DCK
6	-	-	-	-	-	Not Occupied	6	-	-	-	-	-
7	0.75	RD/VT	340	IV	IO5 or IO6	Battery Positive Voltage	7	0.75	RD/VT	340	II	IO5 or IO6

7	0.75	RD/VT	340	IV	IO5 or IO6	Battery Positive Voltage	7	0.75	RD/VT	340	II	IO5 or IO6
8	1.5	BK	1050	I	-	Ground	8	1.5	BK	1050	II	-
9	0.35	BK	1850	II	KA1 or KB6	Ground Ground	9	0.35 0.35	BK BK	1850 1850	II	KA1 or KB6
10	0.35 0.5	L-GN BK	5841 1050	II	IO3 DCK	Right Auxiliary Audio Signal (2) Ground	10	0.35 0.5	L-GN BK	5841 1050	II	IO3 DCK
11	0.35 0.5	GY WH	5839 6816	II	IO3 DCK	Left Auxiliary Audio Signal (2) Indicator Dimming Control	11	0.35 0.5	GY WH	5839 6816	II	IO3 DCK
12	0.35 0.35	VT BN	5843 6532	II	IO3 DCK	Auxiliary Audio Common Signal Power Trunk On/Off Control	12	0.35 0.35	VT BN	5843 6532	II	IO3 DCK
13	0.5 0.35	Bare GY/BK	5842 2546	II	IO3 DCK	Auxiliary Audio Screen (2) Rear Steering Axle Control Motor Supply Voltage Phase B	13	0.5 0.35	Bare GY/BK	5842 2546	II	IO3 DCK
14	0.35	BK	2550	III	IO5 or IO6	Ground	14	0.35	BK	2550	II	IO5 or IO6

X308 Body Harness to 2nd Row Seat Jumper Harness (ATN, ATT or KA6)





Connector Part Information

Harness Type: Body

OEM Connector: 13654393

Service Connector: 13577527

Description: 8-Way F 1.5 Series, Sealed (BK)

Connector Part Information

Harness Type: 2nd Row Seat Left

OEM Connector: 13503538

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way M 150 MX Series, Sealed (BK)

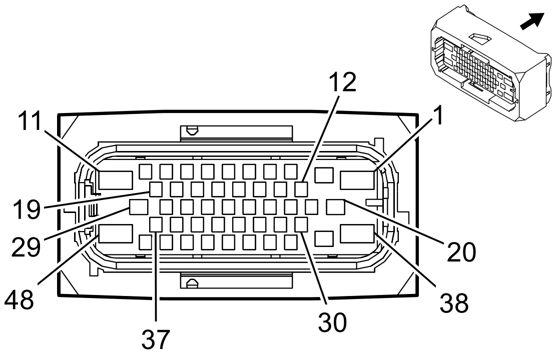
Terminal Part Information

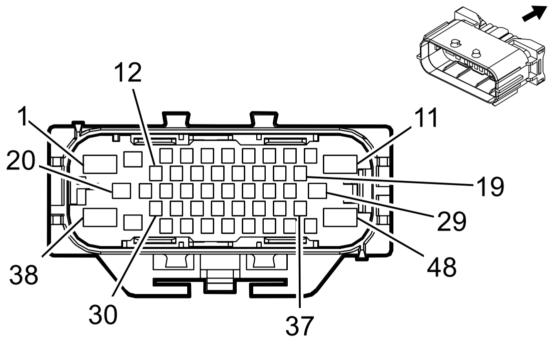
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575808	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	A/E	A/C
II	13575809	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	E	2
III	13575738	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	Not Available	Not Available
IV	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X308 Body Harness to 2nd Row Seat Jumper Harness (ATN, ATT or KA6)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	RD/L-GN	5140	I	KA6	Battery Positive Voltage	1	0.75	RD/L-GN	5140	IV	KA6
2	0.75	RD/L-GN	6140	I	KA6	Battery Positive Voltage	2	0.75	RD/L-GN	6140	IV	KA6
3	0.75	L-GN/BN	2296	I	KA6	Right Rear Heated Seat Cushion Element Supply Voltage	3	0.75	L-GN/BN	2296	IV	KA6
4	0.5	L-GN/D-BU	6133	II	KA6	Linear Interconnect Network Bus 2	4	0.35	L-GN/L-BU	6133	IV	KA6
5	0.75	RD/D-BU	1240	I	ATN or ATT	Battery Positive Voltage	5	0.75	RD/L-BU	1240	IV	ATN or ATT
6	0.5	L-GN	6808	II	ATN or ATT	Left Rear Seat Fold Tumble Control	6	0.5	L-GN	6808	IV	ATN or ATT
7	-	-	-	-	-	Not Occupied	7	-	-	-	-	-
8	0.75	BK	1150	I	-	Ground	8	0.75	BK	1150	IV	-

X310 Driver Seat Harness to Body Harness





Connector Part Information

Harness Type: Driver Seat Cushion

OEM Connector: 15509590

Service Connector: Service by Harness - See Part Catalog

Description: 48-Way F 1.5 MCP, 2.8 JPT, 6.3 MCP Series, Sealed (YE)

Connector Part Information

Harness Type: Body

OEM Connector: 13937634

Service Connector: 19301796

Description: 48-Way M 1.6, 2.8, 5.8 Series, Sealed (YE)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
II	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
III	Not Available	J-35616-35 (VT)	J-38125-36	4-964273-1	15	C	5
IV	13327188	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
V	13327190	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	E	1
VI	Not Available	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	C	4
VII	13582344	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
VIII	Not Available	J-35616-42 (RD)	J-38125-36	Not Available	Not Available	Not Available	Not Available
IX	Not Available	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
X	Not Available	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	E	1

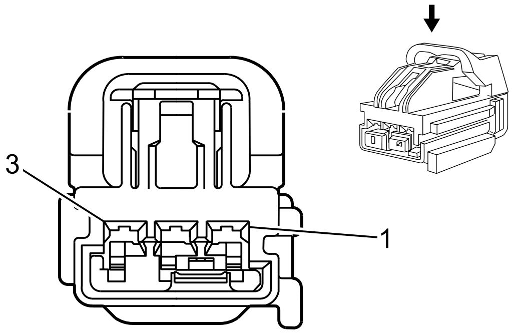
X310 Driver Seat Harness to Body Harness

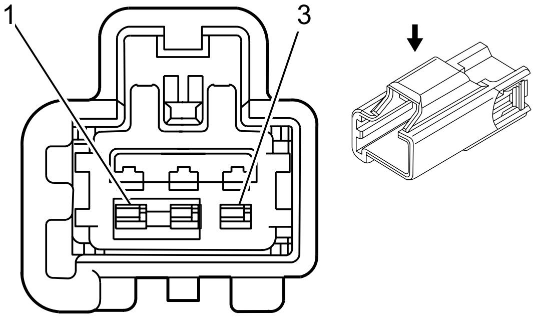
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	-	-	-	-	Not Occupied	1	-	-	-	-	-
2	2.5	RD/YE	5040	III	A45 or ULT	Battery Positive Voltage	2	2.5	RD/YE	5040	VI	A45 or ULT
3	1.5	YE	5129	II	JF4 with A45	Adjustable Pedal Actuator Rearward Control	3	1.5	YE	5129	VII	JF4 with A45
4	1.5	L-GN/VT	5130	II	JF4 with A45	Adjustable Pedal Actuator Forward Control	4	1.5	L-GN/VT	5130	VII	JF4 with A45

5	0.35	OG/L-GN	5055	II	-	Driver Seat Position Switch Signal	5	0.35	OG/L-GN	5055	IV	-
6	0.35	OG/BN	238	II	-	Driver Seat Belt Switch Signal	6	0.35	OG/BN	238	IV	-
7	0.35	BK/OG	1363	II	-	Driver Seat Belt Switch Low Reference	7	0.35	BK/OG	1363	IV	-
8	0.5	RD/RD	2240	II	ULT	Battery Positive Voltage	8	0.75	RD/BN	2240	V	ULT
9	0.35	L-GN/GY	5286	II	JF4 with A45	Adjustable Pedal Switch Forward Signal	9	0.35	L-GN/GY	5286	IV	JF4 with A45
10	0.35	WH/GY	5285	II	JF4 with A45	Adjustable Pedal Switch Rearward Signal	10	0.35	WH/GY	5285	IV	JF4 with A45
11	4	BK	1150	II	-	Ground	11	4	BK	1150	II	-
12	-	-	-	-	-	Not Occupied	12	-	-	-	-	-
13	0.5	WH/RD	6207	II	JF4 with A45	Memory Sensor High Reference	13	0.35	WH/RD	6207	IV	JF4 with A45
14	0.35	L-BU	5952	II	JF4 with A45	Adjustable Pedal Position Sensor Brake Signal	14	0.35	D-BU	5952	IV	JF4 with A45
15	0.5	BK/GY	6206	II	JF4 with A45	Memory Sensor Low Reference	15	0.35	BK/GY	6206	IV	JF4 with A45
16	-	-	-	-	-	Not Occupied	16	-	-	-	-	-
17	0.5	L-GN/WH	7530	II	A45	Linear Interconnect Network Bus 8	17	0.5	L-GN/WH	7530	V	A45
18	-	-	-	-	-	Not Occupied	18	-	-	-	-	-
19	0.35	L-GN/VT	5906	II	KB6	Driver Seat Vent Motor Control (1)	19	0.35	L-GN/VT	5906	IV	KB6
20-22	-	-	-	-	-	Not Occupied	20-22	-	-	-	-	-
23	0.75	RD/BN	1140	II	A45 or ULT	Battery Positive Voltage	23	0.5	RD/BN	1140	V	A45 or ULT
24	0.5	L-GN/OG	3069	I	-	Driver Side Impact Module Low Control	24	0.35	L-GN/OG	3069	II	-
25	0.5	YE/OG	3482	I	-	Driver Seat Belt Anchor Pretensioner Low Control	25	0.35	YE/OG	3482	II	-
26	0.5	L-GN	5060	II	A45	Low Speed GMLAN Serial Data	26	0.5	L-GN	5060	V	A45
27-32	-	-	-	-	-	Not Occupied	27-32	-	-	-	-	-
33	0.5	OG/L-BU	3068	I	-	Driver Side Impact Module High Control	33	0.35	OG/D-BU	3068	II	-
34	0.5	OG/YE	3481	I	-	Driver Seat Belt Anchor Pretensioner High Control	34	0.35	OG/YE	3481	II	-

35	0.35	BU/L-GN	614	II	A45	Memory Seat Switch Set Signal	35	0.35	D-BU/L-GN	614	IV	A45
36	0.75	BN	2432	II	KA1 or KB6	Driver Heated Back Element Supply Voltage	36	0.75	BN	2432	V	KA1 or KB6
37	0.75	BN/VT	2077	II	KA1 or KB6	Driver Heated Seat Element Supply Voltage	37	0.75	BN/VT	2077	V	KA1 or KB6
38-39	-	-	-	-	-	Not Occupied	38-39	-	-	-	-	-
40	0.35	BK/L-BU	5978	II	A45	Memory Switch Low Reference	40	0.35	BK/D-BU	5978	IV	A45
41	0.35	WH	615	II	A45	Memory Seat Switch Signal (1)	41	0.35	WH	615	IV	A45
42	-	-	-	-	-	Not Occupied	42	-	-	-	-	-
43	0.5	VT	4106	I	AYQ	Center Side Impact Module Low Control	43	0.35	VT	4106	II	AYQ
44	0.5	BN/WH	4107	I	AYQ	Center Side Impact Module High Control	44	0.35	BN/WH	4107	II	AYQ
45	-	-	-	-	-	Not Occupied	45	-	-	-	-	-
46	0.35	GY	7557	II		Interior Lamp Control	46	0.35	WH/YE	7557	IV	
47	0.75	RD/L-GN	5140	II	KB6	Battery Positive Voltage	47	0.75	RD/L-GN	5140	V	KB6
48	-	-	-	-	-	Not Occupied	48	-	-	-	-	-

X313 Power Mat Jumper Harness to Floor Console Harness (DCK)





Connector Part Information

Harness Type: Power Mat Jumper

OEM Connector: 10847008

Service Connector: 19149536

Description: 3–Way F 1.5 Kaizen Series (L-GY)

Connector Part Information

Harness Type: Floor Console

OEM Connector: 10846803

Service Connector: 19167751

Description: 3-Way M 1.5 Kaizen YESC Series (L-GY)

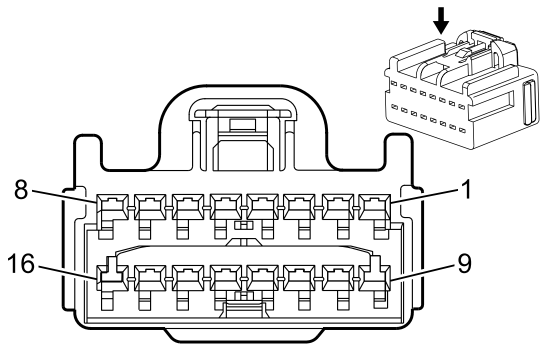
Terminal Part Information

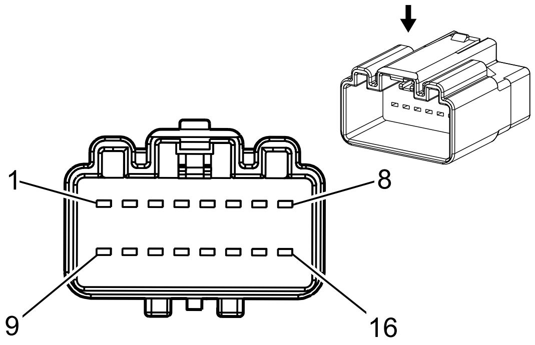
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	13575708	J-35616-2A (GY)	J-38125-11A	7116-4101-08	9	E	A
III	13587412	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	Not Available	Not Available

X313 Power Mat Jumper Harness to Floor Console Harness (DCK)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	VT/YE	43	I	-	Accessory Voltage	1	0.35	VT/YE	43	I	-
2	0.75	BK	1050	I	-	Ground	2	0.75	BK	1050	II	-
3	0.35	L-GN	4512	I	-	Wireless Charging System Charge Indicator Control	3	0.35	L-GN	4512	I	-

X315 Headliner Harness to Body Harness (NKC, UGN or UTT)





Connector Part Information

Harness Type: Headliner

OEM Connector: 10847013

Service Connector: 89047090

Description: 16-Way F 1.5 Kaizen Series (GN)

Connector Part Information

Harness Type: Body

OEM Connector: 13507433

Service Connector: 89047072

Description: 16-Way M 1.5 Kaizen Series (GN)

Terminal Part Information

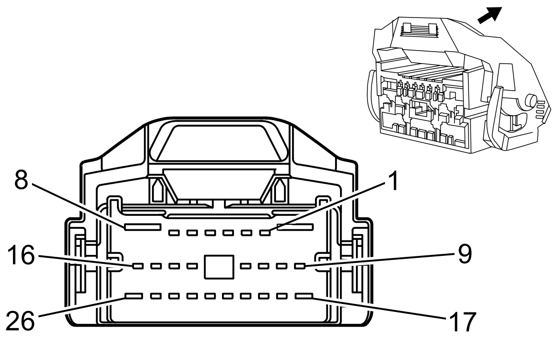
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578891	J-35616-2A (GY)	J-38125-11A	7116-4100-08	9	E	C
II	13575816	J-35616-3 (GY)	J-38125-553	7114-4100-08	9	E	C
III	13587412	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	Not Available	Not Available
IV	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

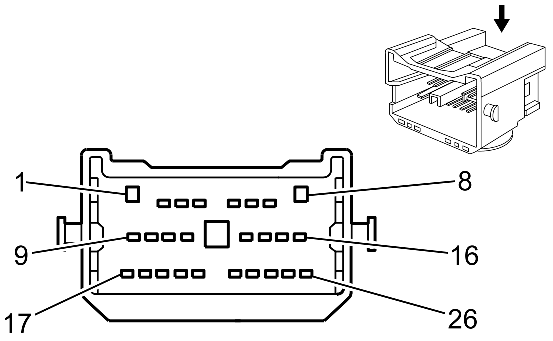
X315 Headliner Harness to Body Harness (NKC, UGN or UTT)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	RD/D-BU	4540	I	UTT	Battery Positive Voltage	1	0.5	RD/D-BU	4540	III	-
2-3	-	-	-	-	-	Not Occupied	2-3	-	-	-	-	-
4	0.5	D-BU/VT	3813	I	UGN with Z75	High Speed GMLAN Serial Data (+) (4)	4	0.5	D-BU/VT	3813	III	UGN with Z75
5	0.5	WH	3811	I	UGN with Z75	High Speed GMLAN Serial Data (-) (4)	5	0.5	WH	3811	III	UGN with Z75
6	0.5	L-GN/BN	6132	I	UTT	Linear Interconnect Network Bus 1	6	0.5	L-GN/BN	6132	III	-
7	0.35	D-BU/VT	3813	I	UGN with Z75	High Speed GMLAN Serial Data (+) (4)	7	0.5	D-BU/VT	3813	III	UGN with Z75
8	0.35	WH	3811	I	UGN with Z75	High Speed GMLAN Serial Data (-) (4)	8	0.5	WH	3811	III	UGN with Z75
9	0.35	GY/VT	3808	I	UGN with Z75	Front Object Sensor Supply Voltage (2)	9	0.35	GY/VT	3808	II	UGN with Z75
10	0.35	L-GN/BK	3008	I	NKC	Noise Reduction Microphone #1 Return	10	0.35	L-GN/BK	3008	II	NKC

						Microphone #1 Return					
11	0.35	L-GN/BN	3005	I	NKC	Noise Reduction Microphone #1 Signal	11	0.35	L-GN/BN	3005	II	NKC
12	0.35	D-BU/BK	3009	I	NKC	Noise Reduction Microphone #2 Return	12	0.35	D-BU/BK	3009	II	NKC
13	0.35	D-BU/YE	3006	I	NKC	Noise Reduction Microphone #2 Signal	13	0.35	D-BU/YE	3006	II	NKC
14	0.35	GY/BN	3010	I	NKC	Noise Reduction Microphone #3 Return	14	0.35	GY/BN	3010	II	NKC
15	0.35	GY/D-BU	3007	I	NKC	Noise Reduction Microphone #3 Signal	15	0.35	GY/D-BU	3007	II	NKC
16	-	-	-	-	-	Not Occupied	16	-	-	-	-	-

X316 Headliner Harness to Overhead Console Harness





Connector Part Information

Harness Type: Headliner

OEM Connector: 15518265

Service Connector: 13587877

Description: 26-Way F 1.5, 2.8, 6.3 Series (BK)

Connector Part Information

Harness Type: Overhead Console

OEM Connector: 13536441

Service Connector: 88952802

Description: 26-Way M Hybrid Series (BK)

Terminal Part Information

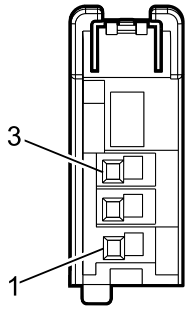
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578891	J-35616-2A (GY)	J-38125-11A	7116-4100-08	9	E	C
II	13575836	J-35616-35 (VT)	J-38125-11A	7116-4112-02	9	Not Available	Not Available
III	13578893	J-35616-4A (PU)	J-38125-11A	7116-4110-02	9	E	C
IV	13575816	J-35616-3 (GY)	J-38125-553	7114-4100-08	9	E	C
V	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
VI	13575825	J-35616-43 (RD)	J-38125-11A	7114-4120-02	9	E	A
VII	Not Available	PENDING	Not Available	Not Available	Not Available	Not Available	Not Available

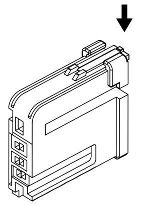
X316 Headliner Harness to Overhead Console Harness

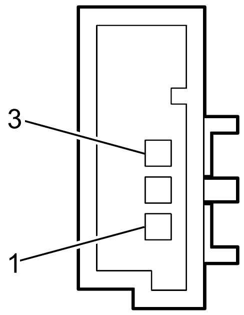
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	-	-	-	-	Not Occupied	1	-	-	-	-	-
2	0.35	L-GN	6112	I	TB5 or TC2	Power Lift Gate On/Off Switch Signal	2	0.35	L-GN	6112	V	TB5 or TC2
3	-	-	-	-	-	Not Occupied	3	-	-	-	-	-
4	0.5	BK	1050	I	-	Ground	4	0.5	BK	1050	IV	-
5	0.35	GY/L-GN	328	I	-	Interior Lamp Defeat Switch Signal	5	0.35	GY/L-GN	328	IV	-
6	0.35	GY	156	I	-	Courtesy Lamp Switch Signal	6	0.35	GY	156	IV	-
7	0.5	WH/BN	6815	I	-	Inadvertent Power Control	7	0.5	WH/BN	6815	IV	-

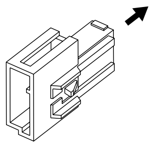
8	-	-	-	-	-	Not Occupied	-	-	-	-	-	-
9	0.35	VT/L-GN	7558	I	-	LED Ambient Lighting Control 2	9	0.35	VT/L-GN	7558	IV	-
10	0.5	YE	6817	I	-	LED Backlight Dimming Control	10	0.5	YE	6817	IV	-
11	0.35	VT/WH	1139	I	-	Run/Crank Ignition 1 Voltage	11	0.35	VT/WH	1139	IV	-
12	0.35	VT/WH	5234	I	-	Passenger Seat Belt Indicator	12	0.35	VT/WH	5234	IV	-
13	0.35	D-BU	2307	I	-	Passenger Air Bag On Indicator Control	13	0.35	D-BU	2307	IV	-
14	0.35	L-GN/RD	2308	I		Passenger Air Bag Off Indicator Control	14	0.35	L-GN	2308	IV	-
15	0.35	RD/D-BU	4540	I	-	Battery Positive Voltage	15	0.35	RD/D-BU	4540	V	UTT
16	0.5	L-GN/BN	6132	I	-	Linear Interconnect Network Bus 1	16	0.5	L-GN/BN	6132	V	UTT
17	0.5	RD/YE	240	II	UG1 or TRW	Battery Positive Voltage	17	0.5	RD/YE	240	V	UG1 or TRW
18	0.35	GY/BK	6113	I	UTT	Rear Lift Gate Open/Close Switch Signal	18	0.35	GY/BK	6113	IV	UTT
19–20	-	-	-	-	-	Not Occupied	19–20	-	-	-	-	-
21	0.5	GY	157	I	-	Interior Lamp Control	21	0.5	GY	157	VII	-
22	-	-	-	-	-	Not Occupied	22	-	-	-	-	-
23	0.35	VT/YE	43	I	-	Accessory Voltage	23	0.35	VT/YE	43	IV	CF5
24-26	-	-	-	-	-	Not Occupied	24-26	-	-	-	-	-

X318 Rain Sensor Jumper Harness to A-Pillar Harness









Connector Part Information

Harness Type: Rain Sensor Jumper

OEM Connector: 19153430

Service Connector: Service by Harness - See Part Catalog

Description: 3–Way F 0.64 Series (BK)

Connector Part Information

Harness Type: A-Pillar

OEM Connector: 13646861

Service Connector: 13579450

Description: 3-Way M 0.64 Series (BK)

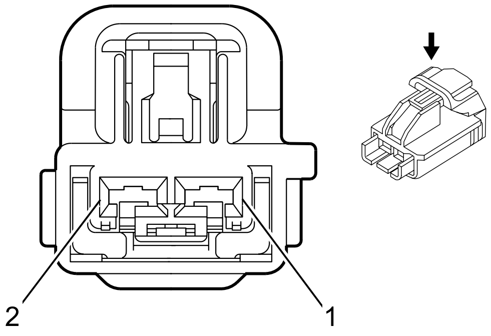
Terminal Part Information

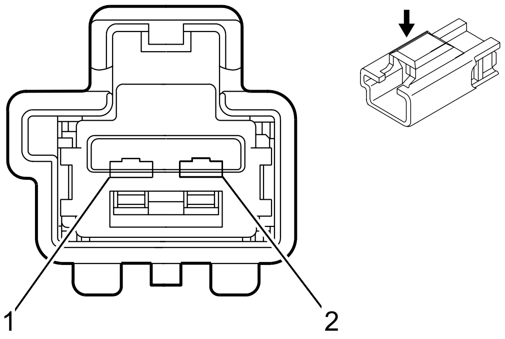
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	Not Available	J-35616-65B (L-BU)	J-38125-215A	SAITW-A03T-064	20	Not Available	Not Available

X318 Rain Sensor Jumper Harness to A-Pillar Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	RD/D-BU	840	I	-	Battery Positive Voltage	1	0.35	RD/D-BU	840	II	-
2	0.5	L-GN/BN	6132	I	-	Linear Interconnect Network Bus 1	2	0.5	L-GN/BN	6132	II	-
3	0.35	BK	1050	I	-	Ground	3	0.35	BK	1050	II	-

X319 A-Pillar Harness to Sunroof Harness (CF5)





Connector Part Information

Harness Type: Sunroof Harness

OEM Connector: 7283-6445-40

Service Connector: 19301720

Description: 2-Way F Kaizen YESC Series (L-GY)

Connector Part Information

Harness Type: A-Pillar

OEM Connector: 10846812

Service Connector: 88988510

Description: 2-Way M Kaizen YESC Series (L-GY)

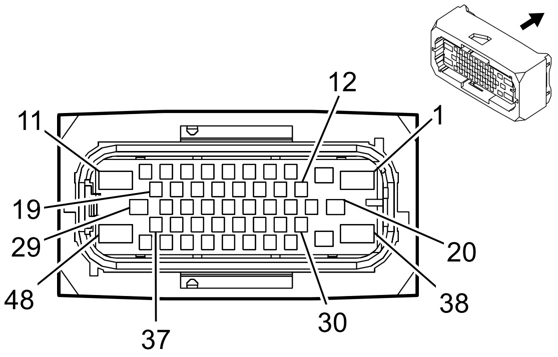
Terminal Part Information

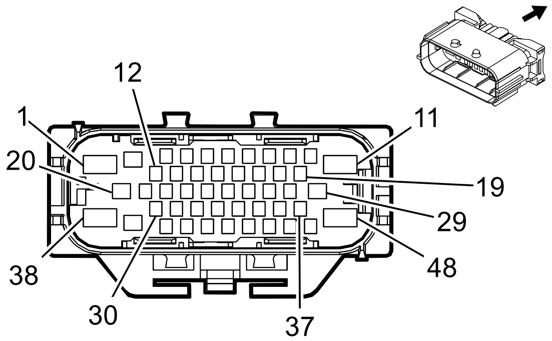
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575295	J-35616-35 (VT)	J-38125-11A	7116-4112-02	9	C	D
II	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X319 A-Pillar Harness to Sunroof Harness (CF5)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	RD/L-GN	3140	I	-	Battery Positive Voltage	1	2.5	RD/L-GN	3140	II	-
2	2.5	BK	1050	I	-	Ground	2	2.5	BK	1050	II	-

X320 Passenger Seat Harness to Body Harness





Connector Part Information

Harness Type: Passenger Seat

OEM Connector: 15509598

Service Connector: Service by Harness - See Part Catalog

Description: 48-Way F 1.5 MCP, 2.8 JPT, 6.3 MCP Series, Sealed (YE)

Connector Part Information

Harness Type: Body

OEM Connector: 13937634

Service Connector: 19301796

Description: 48-Way M 1.6, 2.8, 5.8 Series, Sealed (YE)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	Not Available	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
III	13327188	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
IV	13327190	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	E	1
V	Not Available	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	C	4
VI	Not Available	J-35616-42 (RD)	J-38125-36	Not Available	Not Available	Not Available	Not Available
VII	13584548	J-35616-5 (PU)	J-38125-36	1-962915-3	15	E	1
VIII	Not Available	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
IX	Not Available	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	E	1

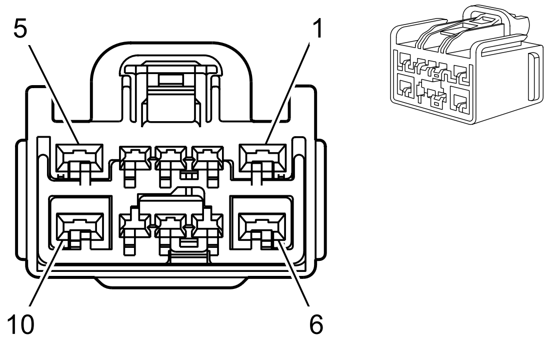
X320 Passenger Seat Harness to Body Harness

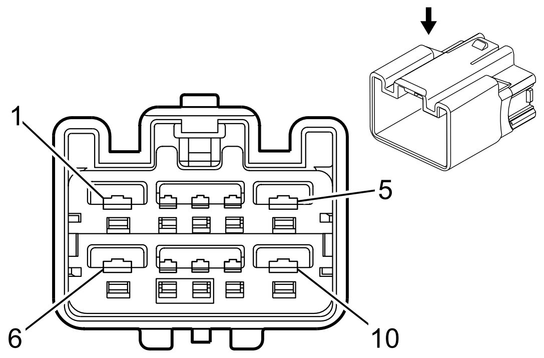
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	-	-	-	-	Not Occupied	1	-	-	-	-	-
2	2.5	RD/BN	1440	I	AG2	2	2	2.5	RD/BN	1440	V	AG2
3-4	-	-	-	-	-	Not Occupied	3-4	-	-	-	-	-
5	0.35	OG/L-BU	5056	I	-	Passenger Seat Position Switch Signal	5	0.35	OG/D-BU	5056	III	-
6	0.35	OG/VT	1362	I	-	Passenger Seat Belt Switch Signal	6	0.35	OG/VT	1362	III	-
7	0.35	BK/OG	1361	I	-	Passenger Seat Belt Switch Low Reference	7	0.35	BK/OG	1361	III	-

						Switch Low Reference						
8	0.75	BN/VT	2077	I	KA1	Driver Heated Seat Element Control	8	0.75	BN/VT	2077	IV	KA1
9	0.75	BN	2432	I	KA1	Driver Heated Back Element Control	9	0.75	BN	2432	IV	KA1
10	-	-	-	-	-	Not Occupied	10	-	-	-	-	-
11	4	BK	1250	I	-	Ground	11	4	BK	1250	I	-
12-13	-	-	-	-	-	Not Occupied	12-13	-	-	-	-	-
14	0.35	L-BU/RD	5612	I	-	Passenger Seat Belt Tension Sensor Voltage Reference	14	0.35	D-BU/RD	5612	III	-
15	0.35	VT/OG	5611	I	-	Passenger Seat Belt Tension Sensor Signal	15	0.35	VT/OG	5611	III	-
16	-	-	-	-	-	Not Occupied	16	-	-	-	-	-
17	0.75	RD/L-GN	6140	I	KA1 or KB6	Battery Positive Voltage	17	0.75	RD/L-GN	6140	IV	KA1 or KB6
18	-	-	-	-	-	Not Occupied	18	-	-	-	-	-
19	0.35	VT/WH	5908	I	KB6	Passenger Seat Vent Motor Control (1)	19	0.35	VT/WH	5908	III	KB6
20–22	-	-	-	-	-	Not Occupied	20–22	-	-	-	-	-
23	0.5	RD/BN	1140	VII	ULT	Battery Positive Voltage	23	0.5	RD/BN	1140	VII	ULT
24	0.5	BN/OG	3067	II	-	Passenger Side Impact Module Low Control	24	0.35	BN/OG	3067	I	-
25	0.5	GY/OG	3480	II	-	Passenger Seat Belt Anchor Pretensioner Low Control	25	0.35	GY/OG	3480	I	-
26	0.35	L-GN	5060	I	-	Low Speed GMLAN Serial Data	26	0.35	L-GN	5060	III	-
27	0.5	L-GN/D-BU	6133	IV	KA1	Local Interconnect Network Serial Data Bus 2	27	0.5	L-GN/D-BU	6133	IV	KA1
28-32	-	-	-	-	-	Not Occupied	28-32	-	-	-	-	-
33	0.5	OG/GY	3066	II	-	Passenger Side Impact Module High Control	33	0.35	OG/GY	3066	I	-
34	0.5	OG/BN	3479	II	-	Passenger Seat Belt Anchor Pretensioner High Control	34	0.35	OG/BN	3479	I	-
35	0.35	RD/L-GN	4440	I	-	Battery Positive Voltage	35	0.35	RD/L-GN	4440	III	-
36	0.35	BK/WH	2751	I	-	Signal Ground	36	0.5	BK/WH	2751	IV	-
37-45	-	-	-	-	-	Not Occupied	37-45	-	-	-	-	-
46	0.35	GY	7557	III	-	LED Ambient Lighting Control 1	46	0.35	WH/YE	7557	III	

						Control 1						
47	0.75	RD/L-GN	5140	IV	KA1	Battery Positive Voltage	47	0.75	RD/L-GN	5140	IV	KA1
48	-	-	-	-	-	Not Occupied	48	-	-	-	-	-

X324 Sunroof Jumper Harness to Overhead Console Harness (CF5)





Connector Part Information

Harness Type: Sunroof Harness

OEM Connector: 7283–6459–40

Service Connector: 19167677

Description: 10–Way F 1.5, 2.8 Kaizen Series (L-GY)

Connector Part Information

Harness Type: Overhead Console

OEM Connector: 13506926

Service Connector: Service by Harness - See Part Catalog

Description: 10-Way M YESC Kaizen Series (L-GY)

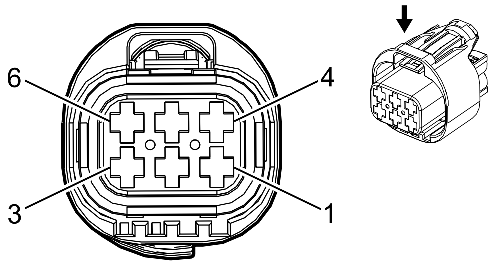
Terminal Part Information

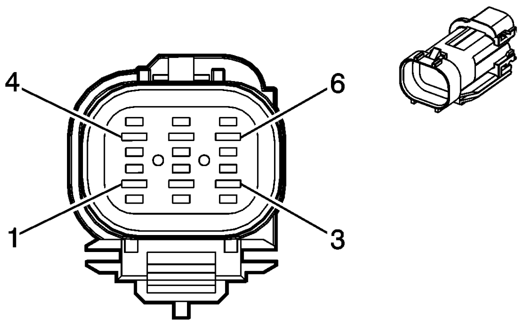
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X324 Sunroof Jumper Harness to Overhead Console Harness (CF5)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	-	-	-	-	Not Occupied	1	-	-	-	-	-
2	0.35	L-GN/WH	100	I	-	Sunroof Switch Open Signal	2	0.35	L-GN/WH	100	I	-
3	0.35	BN/D-BU	2074	I	-	Sunroof Switch Express Signal	3	0.35	BN/D-BU	2074	I	-
4	0.35	GY/VT	2075	I	-	Sunroof Switch Close Vent Signal	4	0.35	GY/VT	2075	I	-
5	-	-	-	-	-	Not Occupied	5	-	-	-	-	-
6	0.35	VT/YE	43	I	-	Accessory Voltage	6	0.35	VT/YE	43	I	-
7	0.35	D-BU/WH	110	I	-	Sunroof Switch Close Signal	7	0.35	D-BU/WH	110	I	-
8	0.35	YE/VT	144	I	-	Sunroof Switch Open Vent Signal	8	0.35	YE/VT	144	I	-
9-10	-	-	-	-	-	Not Occupied	9-10	-	-	-	-	-

X338 Body Harness to 3rd Row Seat Left Harness (AS8)





Connector Part Information

Harness Type: Body

OEM Connector: 10865192

Service Connector: 13584412

Description: 6-Way F 2.8 Junior Power Timer Series, Sealed (BK)

Connector Part Information

Harness Type: 3rd Row Seat Left

OEM Connector: 1452324-1

Service Connector: 93185233

Description: 6-Way M 2.8 Series, Sealed (BK)

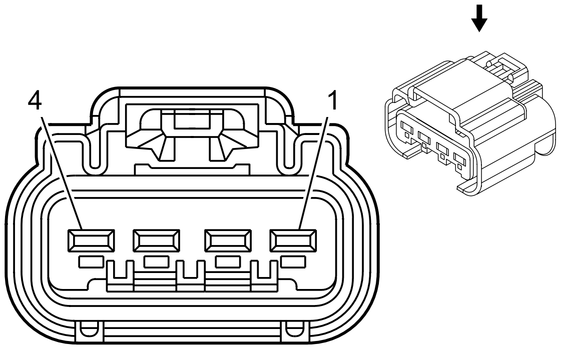
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-35 (VT)	J-38125-36	4-964273-1	15	C	5
II	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X338 Body Harness to 3rd Row Seat Left Harness (AS8)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	RD/D-BU	1240	I	-	Battery Positive Voltage	1	2.5	RD/L-BU	1240	II	-
2	0.5	L-GN	4224	II		LH Third Row Seat Recline Rearward Signal	2	0.5	L-GN	4224	II	-
3	0.5	L-GN/BK	4223	II		LH Third Row Seat Recline Forward Signal	3	0.5	L-GN/BK	4223	II	-
4	0.5	YE	4220	II		RH Third Row Seat Recline Rearward Signal	4	0.5	YE	4220	II	-
5	0.5	YE/BK	4219	II	-	RH Third Row Seat Recline Forward Signal	5	0.5	YE/BK	4219	II	-
6	2.5	BK	1150	I	-	Ground	6	2.5	BK	1150	II	-

X350 Chassis Harness to Fuel Tank Harness



Connector Part Information

Harness Type: Chassis

OEM Connector: 13527865

Service Connector: 13587174

Description: 4-Way F 280 GT Series, Sealed (NA)

Connector Part Information

Harness Type:

OEM Connector:

Service Connector: Service by Harness - See Part Catalog

Description: 4 M

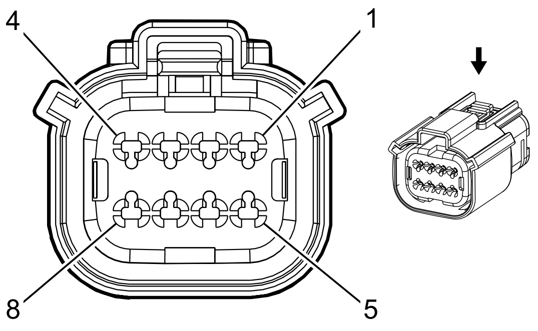
Terminal Part Information

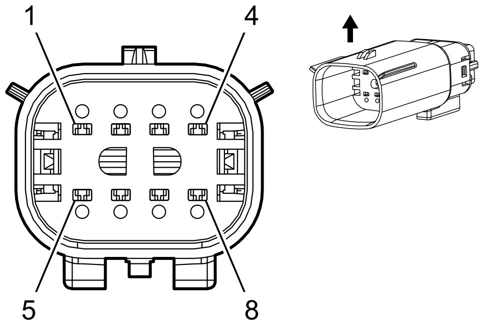
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-4A (PU)	J-38125-553	15392777	23	D	5
II	13578915	J-35616-4A (PU)	J-38125-553	15304719	19	E	5
III	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X350 Chassis Harness to Fuel Tank Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	GY	120	I	-	Fuel Pump Supply Voltage	1	2.5	GY	120	III	-
2	2.5	BK/L-GN	1580	I	-	Fuel Pump Low Reference	2	2.5	BK/L-GN	1580	III	-
3	0.5	BK/L-GN	6281	II	-	Fuel Level Sensor Low Reference	3	0.5	BK/L-GN	6281	III	-
4	0.5	D-BU/VT	1589	II	-	Primary Fuel Level Sensor Signal	4	0.5	D-BU/VT	1589	III	-

X378 Body Harness to 2nd Row Seat Jumper Harness (ATN or ATT)





Connector Part Information

Harness Type: Body

OEM Connector: 13654393

Service Connector: 13577527

Description: 8-Way F 1.5 Series, Sealed (BK)

Connector Part Information

Harness Type: 2nd Row Seat Right

OEM Connector: 13503538

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way M 150 MX Series, Sealed (BK)

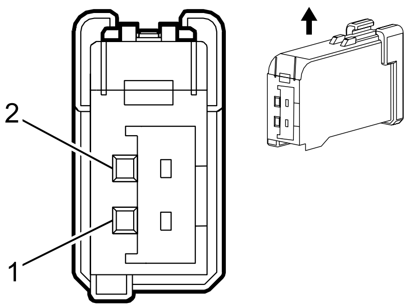
Terminal Part Information

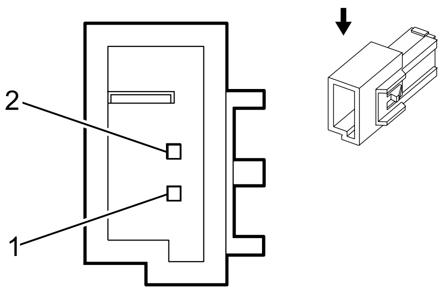
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575808	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	A/E	A/C
II	13575809	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	E	2
III	13575738	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	Not Available	Not Available
IV	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X378 Body Harness to 2nd Row Seat Jumper Harness (ATN or ATT)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	RD/D-BU	1240	I	-	Battery Positive Voltage	1	0.75	RD	1240	IV	-
2	-	-	-	-	-	Not Occupied	2	-	-	-	-	-
3	0.75	L-GN/BN	2296	I	KA6	Right Rear Heated Seat Cushion Element Supply Voltage	3	0.75	L-GN	2296	IV	KA6
4-5	-	-	-	-	-	Not Occupied	4-5	-	-	-	-	-
6	0.5	BN/WH	6809	II	-	Right Rear Seat Fold Tumble Control	6	0.5	BN	6809	IV	-
7	-	-	-	-	-	Not Occupied	7	-	-	-	-	-
8	0.75	BK	1250	I	-	Ground	8	0.75	BK	1250	IV	-

X379 Body Harness to 2nd Row Seat Jumper Harness (ATN or ATT)





Connector Part Information

Harness Type: Body

OEM Connector: 13595633

Service Connector: 13314093

Description: 2-Way F 0.64 Kaizen Series (BK)

Connector Part Information

Harness Type: Body Extension

OEM Connector: 13676029

Service Connector: 19260825

Description: 2-Way M 0.64 Series (BK)

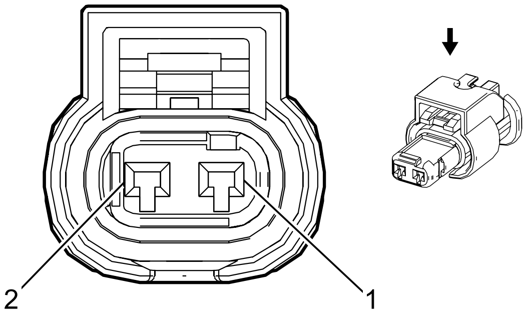
Terminal Part Information

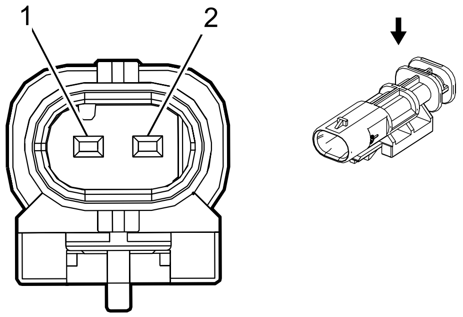
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579944	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
II	Not Available	J-35616-65B (L-BU)	J-38125-215A	SAITW-A03T-064	20	Not Available	Not Available

X379 Body Harness to 2nd Row Seat Jumper Harness (ATN or ATT)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	YE/BK	5813	I	-	Park Enable Supply Voltage	1	0.5	YE/BK	5813	II	-
2	0.5	BN/WH	6809	I	-	Right Rear Seat Fold Tumble Control	2	0.5	BN/WH	6809	II	-

X380 Body Harness to Driver Roof Rail Air Bag Jumper





Connector Part Information

Harness Type: Body

OEM Connector: 13863037

Service Connector: 13587886

Description: 2-Way F 1.2 Multiple Contact Point Series, Sealed (YE with BK Inner Connector)

Connector Part Information

Harness Type: Driver Roof Rail Air Bag

OEM Connector: 13580142

Service Connector: Service by Component - See Part Catalog

Description: 2–Way M 1.2 MLK Series, Sealed (YE)

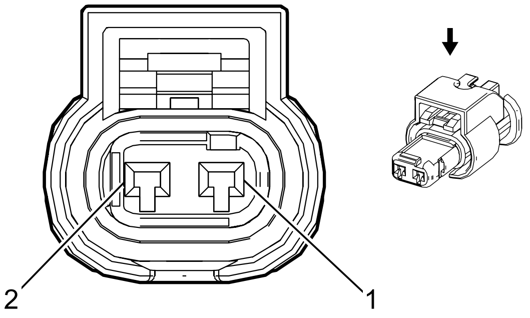
Terminal Part Information

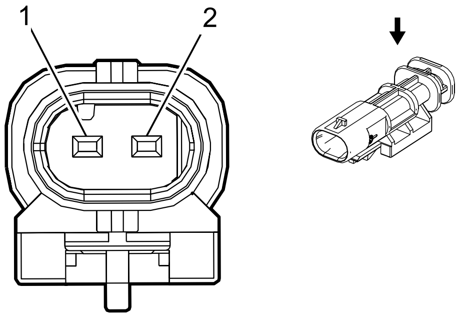
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-16 (L-GN)	J-38125-22	Not Available	Not Available	Not Available	Not Available
II	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X380 Body Harness to Driver Roof Rail Air Bag Jumper

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	OG/L-GN	5019	I	-	Left Front Head Curtain Module High Control	1	0.35	OG/TN	5019	II	-
2	0.35	VT/OG	5020	I	-	Left Front Head Curtain Module Low Control	2	0.35	YE/OG	5020	II	-

X390 Body Harness to Passenger Roof Rail Air Bag Jumper





Connector Part Information

Harness Type: Body

OEM Connector: 13863037

Service Connector: 13587886

Description: 2-Way F 1.2 Multiple Contact Point Series, Sealed (YE with BK Inner Connector)

Connector Part Information

Harness Type: Passenger Roof Rail Air Bag

OEM Connector: 13580142

Service Connector: Service by Component - See Part Catalog

Description: 2–Way M 1.2 MLK Series, Sealed (YE)

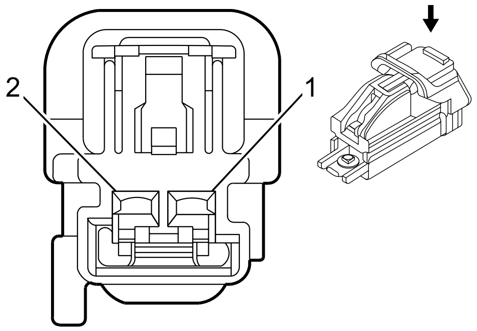
Terminal Part Information

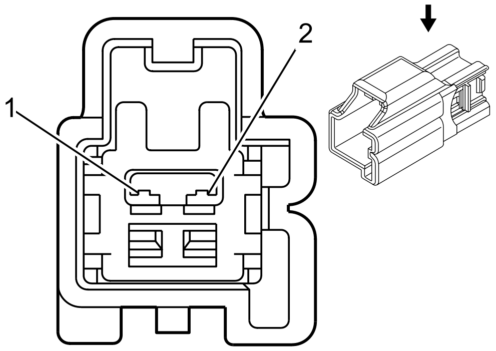
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-16 (L-GN)	J-38125-22	Not Available	Not Available	Not Available	Not Available
II	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X390 Body Harness to Passenger Roof Rail Air Bag Jumper

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	OG/GY	5021	I	-	Right Front Head Curtain Module High Control	1	0.35	OG/GN	5021	II	-
2	0.35	WH/OG	5022	I	-	Right Front Head Curtain Module Low Control	2	0.35	PU/OG	5022	II	-

X399 Instrument Panel Harness to Instrument Panel Harness





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 10846794

Service Connector: 88988504

Description: 2-Way F 1.5 YESC Series (L-GY)

Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 10846798

Service Connector: 88988503

Description: 2-Way M 1.5 Series (L-GY)

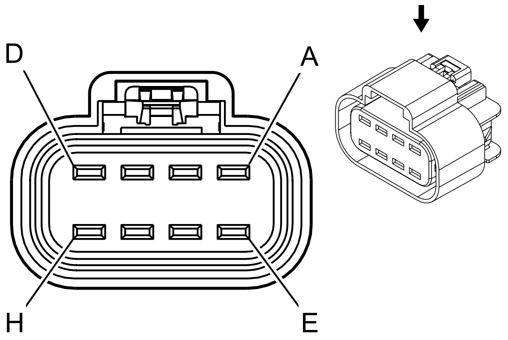
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575808	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	E	2
II	13575809	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	E	2
III	13575816	J-35616-3 (GY)	J-38125-553	7114-4100-08	9	E	C

X399 Instrument Panel Harness to Instrument Panel Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	GY/VT	3998	I	-	MOST Serial Data (+)	1	0.5	GY/VT	3998	III	-
2	0.5	WH/L-GN	3997	I	-	MOST Serial Data (-)	2	0.5	WH/L-GN	3997	III	-

X400 Chassis Harness to Compressor Jumper Harness



Connector Part Information

Harness Type: Chassis

OEM Connector: 15326654

Service Connector: SEE NOTE

Description: 8-Way F 280 GT 5.8 Series, Sealed (BK)

Connector Part Information

Harness Type:

OEM Connector:

Service Connector: Service by Harness - See Part Catalog

Description: 8 M

Terminal Part Information

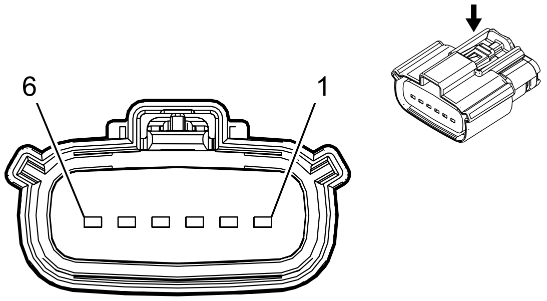
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578915	J-35616-4A (PU)	J-38125-553	15304719	19	E	5
II	13578915	J-35616-4A (PU)	J-38125-553	15304719	19	2	5
III	Not Available	J-35616-4A (PU)	J-38125-553	15392777	23	D	5
IV	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

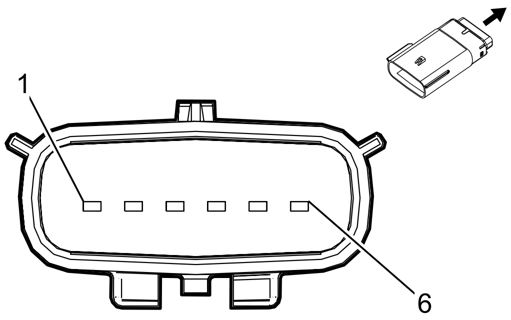
X400 Chassis Harness to Compressor Jumper Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.5	YE/L-GN	6075	I	-	Real Time Damping Air Pressure Sensor Signal	A	0.5	YE/L-GN	6075	IV	-
B	0.75 0.75	RD/L-GN WH/D-BU	2440 3261	II	-	Battery Positive Voltage Automatic Level Control Exhaust Solenoid Supply Voltage	B	0.75	RD/L-GN	2440	IV	-
C	0.75	WH/L-GN	320	II	-	Automatic Level Control Exhaust Solenoid Control	C	0.75	WH/L-GN	320	IV	-
D	-	-	-	-	-	Not Occupied	D	-	-	-	-	-
E	2.5 2.5	WH/PU WH/VT	2248 2248	III	-	Real Time Damping Leveling Motor Supply Voltage Real Time Damping Leveling Motor Supply Voltage	E	2.5	WH/PU	2248	IV	-
F	0.5	BK/YE	6077	I	-	Real Time Damping Air Pressuer Sensor Low Reference	F	0.5	BK/YE	6077	IV	-

						Reference						
G	2.5	BK	1750	III	-	Ground	G	2.5	BK	1750	IV	-
H	0.5	D-BU/RD	6076	I	-	Real Time Damping Air Pressure Sensor 5 Volt Reference	H	0.5	D-BU/RD	6076	IV	-

X410 Left Tail Lamp Jumper to Chassis Harness





Connector Part Information

Harness Type: Left Tail Lamp

OEM Connector: 33471-0606

Service Connector: Service by Harness - See Part Catalog

Description: 6–Way F 1.5 Series, Sealed (BK)

Connector Part Information

Harness Type: Chassis

OEM Connector: 15456940

Service Connector: Not Available

Description: 6-Way M 1.5 MX Series, Sealed (BK)

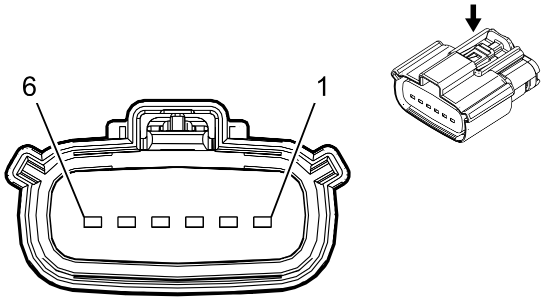
Terminal Part Information

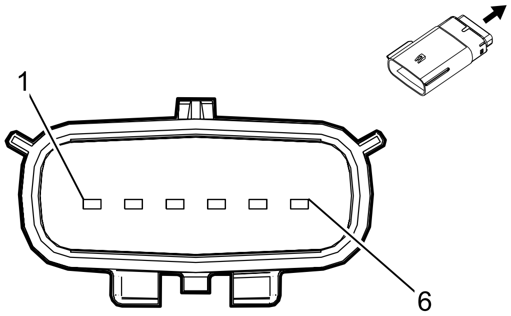
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	13587412	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	Not Available	Not Available
III	13587410	J-35616-3 (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available

X410 Left Tail Lamp Jumper to Chassis Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	WH	24	I	-	Backup Lamp Supply Voltage	1	0.5	L-GN/WH	24	II	-
2	0.5	BN	18	I	-	Left Rear Stop/Turn Lamp Supply Voltage	2	0.5	YE/D-BU	18	II	-
3	0.5	D-BU	5356	I	-	Left Tail Lamp Outage Detection Signal	3	0.5	YE/BK	5356	II	-
4	0.75	D-GN	7542	I	-	Left Rear Stop Lamp Supply Voltage	4	0.75	GY/YE	7542	III	-
5	0.5	YE	709	I	-	Left Park Lamp Supply Voltage	5	0.5	VT/GY	709	II	-
6	0.75	BK	1750	I	-	Ground	6	1	BK	1750	III	

X420 Right Tail Lamp Jumper to Chassis Harness





Connector Part Information

Harness Type: Right Tail Lamp

OEM Connector: 33471-0606

Service Connector: Service by Harness - See Part Catalog

Description: 6–Way F 1.5 Series, Sealed (BK)

Connector Part Information

Harness Type: Chassis

OEM Connector: 15456940

Service Connector: Not Available

Description: 6-Way M 1.5 MX Series, Sealed (BK)

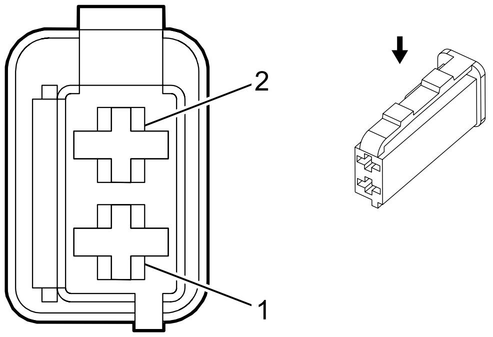
Terminal Part Information

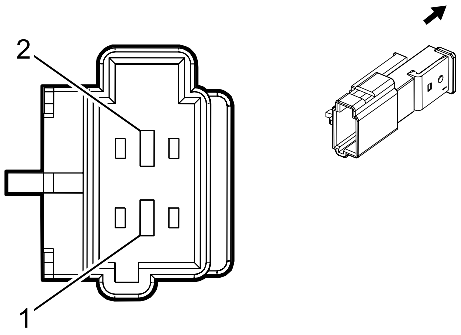
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	13587412	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	Not Available	Not Available
III	13587410	J-35616-3 (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available

X420 Right Tail Lamp Jumper to Chassis Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	WH	24	I	-	Backup Lamp Supply Voltage	1	0.5	L-GN/WH	24	II	-
2	0.5	BN	19	I	-	Right Rear Stop/Turn Lamp Supply Voltage	2	0.5	BN/L-GN	19	II	-
3	0.5	D-BU	5357	I	-	Right Tail Lamp Outage Detection Signal	3	0.5	VT/YE	5357	II	-
4	0.75	D-GN	7541	I	-	Right Rear Stop Lamp Supply Voltage	4	0.75	WH/YE	7541	III	-
5	0.5	YE	309	I	-	Right Park Lamp Supply Voltage	5	0.5	GY/BN	309	II	-
6	0.75	BK	2150	I	-	Ground	6	0.75	BK	2150	III	-

X485 Overhead Console Harness to Body Harness





Connector Part Information

Harness Type: CHMSL Jumper

OEM Connector: 13670097

Service Connector: 13580951

Description: 2–Way F 1.6 Timer Series (BK)

Connector Part Information

Harness Type: Body

OEM Connector: 13662506

Service Connector: 13574780

Description: 2-Way M 1.6 Timer Series (BK)

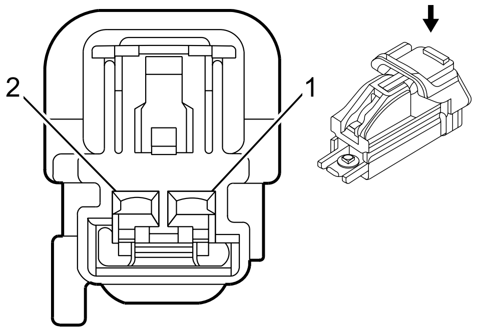
Terminal Part Information

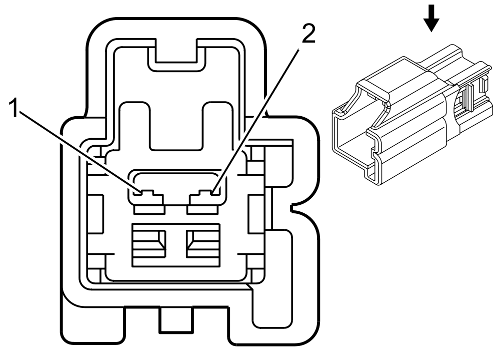
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X485 Overhead Console Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	VT/WH	5065	I	-	Stop Lamp Relay Coil Supply Voltage	1	0.5	VT/WH	5065	II	-
2	1	BK	1450	I	-	Ground	2	1	BK	1450	II	-

X486 Body Harness to Rear Dome Lamp Jumper Harness (LWB)





Connector Part Information

Harness Type: Body

OEM Connector: 10846794

Service Connector: 88988504

Description: 2-Way F 1.5 YESC Series (L-GY)

Connector Part Information

Harness Type: Rear Dome Lamp Jumper

OEM Connector: 10846798

Service Connector: 88988503

Description: 2-Way M 1.5 Series (L-GY)

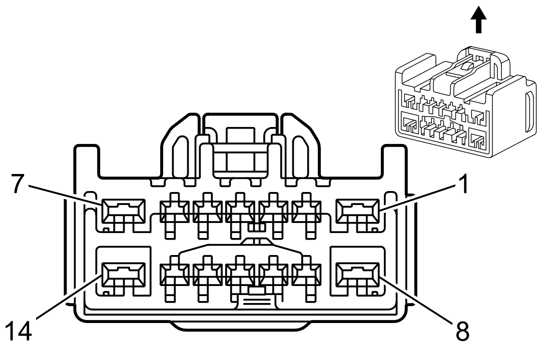
Terminal Part Information

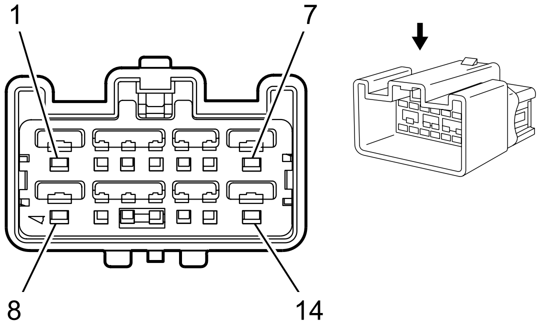
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	13575708	J-35616-2A (GY)	J-38125-11A	7116-4101-08	9	E	A
III	13575816	J-35616-3 (GY)	J-38125-553	7114-4100-08	9	E	C

X486 Body Harness to Rear Dome Lamp Jumper Harness (LWB)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	GY	157	I	-	Interior Lamp Control	1	0.5	GY	157	III	-
2	1	BK	1450	II	-	Ground	2	0.5	BK	1450	III	-

X487 Body Harness to Auxiliary HVAC Jumper Harness





Connector Part Information

Harness Type: Body

OEM Connector: 10847017

Service Connector: 88956524

Description: 14-Way F Hybrid Series (L-GY)

Connector Part Information

Harness Type: Auxiliary HVAC

OEM Connector: 89047433

Service Connector: 88956523

Description: 14–Way M Hybrid Series (L-GY)

Terminal Part Information

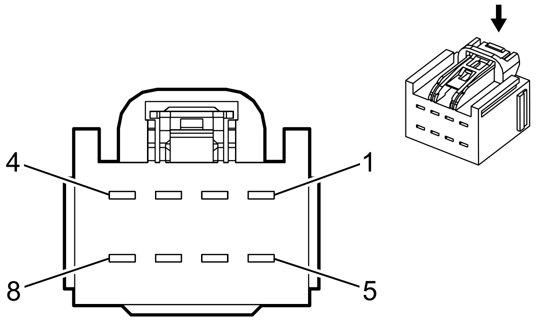
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575295	J-35616-35 (VT)	J-38125-11A	7116-4112-02	9	C	D
II	13575809	J-35616-14 (GN)	J-38125-217	Not Available	Not Available	E	2
III	13575836	J-35616-35 (VT)	J-38125-11A	7116-4112-02	9	Not Available	Not Available
IV	13578893	J-35616-4A (PU)	J-38125-11A	7116-4110-02	9	E	C
V	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

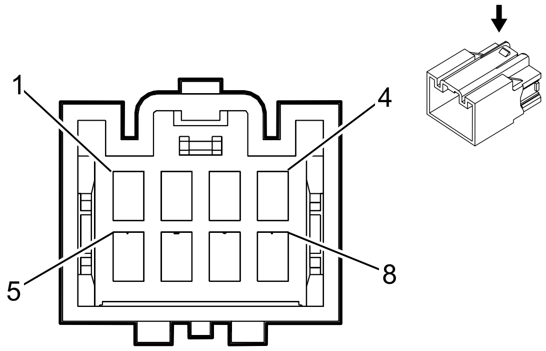
X487 Body Harness to Auxiliary HVAC Jumper Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	RD/GY	1740	I	-	Battery Positive Voltage	1	2.5	RD/GY	1740	V	-
2	0.35	L-GN/WH	5729	II	-	Rear Mode Motor Supply Voltage	2	0.35	WH/OG	5729	V	-
3	0.35	BK/L-GN	5730	II	-	Rear Mode Motor Low Reference	3	0.35	BK/L-GN	5730	V	-
4	0.35	GY/RD	598	II	-	5 Volt Reference	4	0.35	GY/RD	598	V	-
5	0.35	GY	2599	II	-	Rear Mode Motor Signal	5	0.35	GY	2599	V	-
6	0.35	WH/BN	2775	II	-	Rear Air Temperature Motor Control	6	0.35	GY	2775	V	-
7	0.35	BN	404	III	-	Upper Air Temperature Sensor Signal	7	0.35	BN	404	V	-
8	-	-	-	-	-	Not Occupied	8	-	-	-	-	-
9	0.35	L-GN/BK	2211	II	-	Rear Blower Motor Speed Control	9	0.35	L-GN/BK	2211	V	-

						Speed Control					
10	0.35	BN/BK	405	II	-	Lower Air Temperature Sensor Signal	10	0.35	BK	405	V	-
11	0.35	BK/YE	407	II	-	Sensor Low Reference	11	0.35	BK/YE	407	V	-
12	0.35	GY/D-BU	2145	II	-	Passenger Air Temperature Switch Signal	12	0.35	GY/D-BU	2145	V	-
13	0.35	GY	2614	II	-	Rear Air Temperature Door Control	13	0.35	GY	2614	V	-
14	-	-	-	-	-	Not Occupied	14	-	-	-	-	-

X490 Body Harness to Body Harness





Connector Part Information

Harness Type: Body

OEM Connector: 10847011

Service Connector: 13581036

Description: 8-Way F 2.8 Series (L-GY)

Connector Part Information

Harness Type: Body

OEM Connector: 13506919

Service Connector: Not Available

Description: 8-Way M 2.8 YESC Series (L-GY)

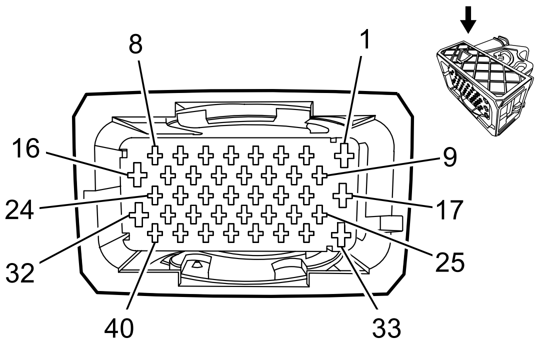
Terminal Part Information

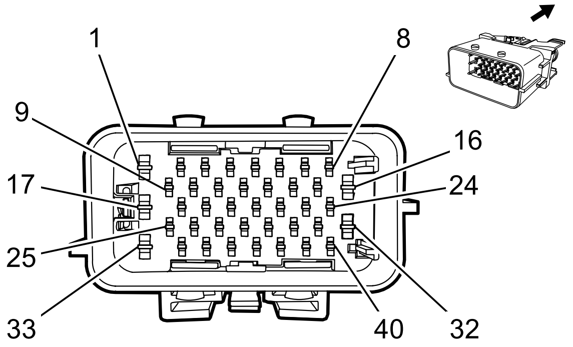
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575295	J-35616-35 (VT)	J-38125-11A	7116-4112-02	9	C	D
II	13575836	J-35616-35 (VT)	J-38125-11A	7116-4112-02	9	Not Available	Not Available
III	13575832	J-35616-35 (VT)	J-38125-11A	7116-4112-02	9	C	D
IV	13575838	J-35616-35 (VT)	J-38125-11A	7116-4111-02	9	E	A
V	Not Available	J-35616-35 (VT)	J-38125-12A	1326030-8	17	A	4
VI	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X490 Body Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	BN/VT	293	I	-	Rear Defog Element Supply Voltage	1	2.5	BN/VT	293	VI	-
2	0.5	D-BU/WH	6128	II	TB4	Rear Closure Unlatch Motor Unlatch Control	2	0.5	D-BU/WH	6128	VI	TB4
3	0.5	D-BU/YE	6795	II	-	Lift Glass/Trunk Motor Release Control 2	3	0.5	D-BU/YE	6795	VI	-
4	2.5	RD/GY	1740	I	-	Battery Positive Voltage	4	2.5	RD/GY	1740	VI	-
5	0.5	RD/D-BU	840	II	-	Battery Positive Voltage	5	0.5	RD/D-BU	840	VI	-
6	3	RD/GY	7040	III	-	Battery Positive Voltage	6	3	RD/GY	7040	VI	-
7	0.75	RD/YE	3040	IV	-	Battery Positive Voltage	7	0.75	RD/YE	3040	VI	-
8	1.5	RD/D-BU	6040	V	-	Battery Positive Voltage	8	1.5	RD/D-BU	6040	VI	-

X495 Body Harness to Rear Bumper Harness





Connector Part Information

Harness Type: Body

OEM Connector: 13603185

Service Connector: 13576549

Description: 40-Way F 1.5, 2.8 Series, Sealed (BK)

Connector Part Information

Harness Type: Rear Bumper

OEM Connector: 13603208

Service Connector: 13576551

Description: 40-Way M 1.5 DSQ, 2.8 ATS Series, Sealed (BK)

Terminal Part Information

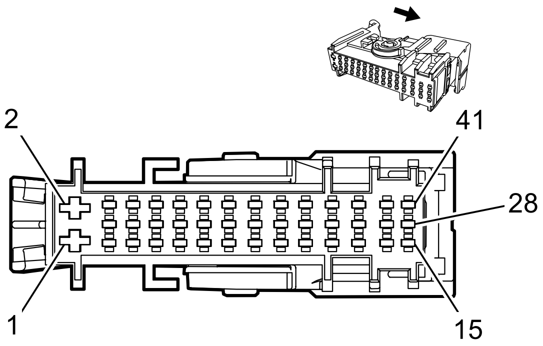
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-35 (VT)	J-38125-36	4-964286-1	16	E	1
II	Not Available	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1
III	13588058	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1
IV	13582248	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	E	1
V	13584470	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1
VI	Not Available	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
VII	13327171	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	2	C
VIII	Not Available	J-35616-5 (PU)	J-38125-36	1-962915-3	15	E	1
IX	13584476	J-35616-14 (GN)	J-38125-560	964265-2	28	E	C
X	13584548	J-35616-5 (PU)	J-38125-36	1-962915-3	15	E	1
XI	Not Available	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	E	1

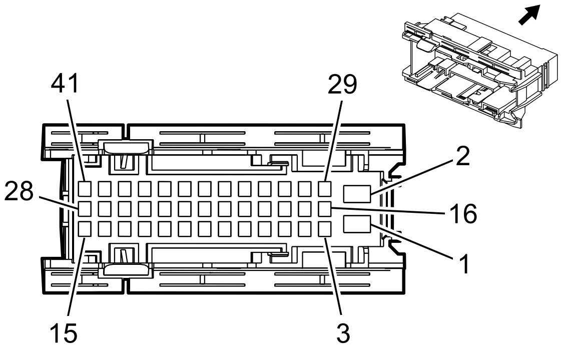
X495 Body Harness to Rear Bumper Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	BN/WH	2374	I	UD5 or UD7	Object Sensor Supply Voltage	1	0.5	BN/WH	2374	VI	UD5 or UD7
2	0.5	YE	2375	III	UD5 or UD7	Left Rear Corner Object Sensor Signal	2	0.5	YE	2375	VII	UD5 or UD7
3	0.5	YE/D-BU	2376	III	UD5 or UD7	Left Rear Middle Object Sensor Signal	3	0.5	YE/D-BU	2376	VII	UD5 or UD7
4	0.5	YE/VT	2378	III	UD5 or UD7	Right Rear Corner	4	0.5	YE/VT	2378	VII	UD5 or UD7

4	0.5	YE/VT	2378	III	UD5 or UD7	Right Rear Corner Object Sensor Signal	4	0.5	YE/VT	2378	VII	UD5 or UD7
5	0.5	YE/WH	2377	III	UD5 or UD7	Right Rear Middle Object Sensor Signal	5	0.5	YE/WH	2377	VII	UD5 or UD7
6	0.5	BK/GY	2379	III	UD5 or UD7	Object Sensor Low Reference	6	0.5	BK/GY	2379	VII	UD5 or UD7
7	-	-	-	-	-	Not Occupied	7	-	-	-	-	-
8	1	BK	1450	II	TC2, T79, UKC or UVZ	Ground	8	0.75	BK	1450	IX	TC2, T79, UKC or UVZ
9	0.35	BN/VT	3809	IV	UVZ	Front Object Sensor Supply Voltage (1)	9	0.5	BN/VT	3809	VII	UVZ
10	-	-	-	-	-	Not Occupied	10	-	-	-	-	-
11	0.5	D-BU/VT	3813	II	UVZ	High Speed GMLAN Serial Data (+) (4)	11	0.5	D-BU/VT	3813	VII	UVZ
12	0.5	WH	3811	II	UVZ	High Speed GMLAN Serial Data (-) (4)	12	0.5	WH	3811	VII	UVZ
13	0.5	BN/L-GN	3568	III	ATH	Passive Entry Rear Closure Antenna Signal Hi	13	0.5	BN/L-GN	3568	VII	ATH
14	0.5	L-GN/GY	3569	III	ATH	Passive Entry Rear Closure Antenna Signal Lo	14	0.5	L-GN/GY	3569	VII	ATH
15	0.35	GY/YE	5853	IV	UKC	Driver Side Object Detection LED Signal (1)	15	0.35	GY/YE	5853	VII	UKC
16	0.35	GY	5861	I	UKC	Passenger Side Object Detection LED Signal (1)	16	0.35	GY	5861	VIII	UKC
17	0.5	L-GN	5060	I	UKC	Low Speed GMLAN Serial Data	17	0.35	L-GN	5060	VI	UKC
18	0.5	L-GN/BN	4118	II	TC2	Linear Interconnect Network Bus 18	18	0.5	L-GN/BN	4118	VII	TC2
19	0.5	D-BU/VT	3813	III	UVZ	High Speed GMLAN Serial Data (+) (4)	19	0.5	D-BU/VT	3813	VII	UVZ
20	0.5	WH	3811	III	UVZ	High Speed GMLAN Serial Data (-) (4)	20	0.5	WH	3811	VII	UVZ
21	-	-	-	-	-	Not Occupied	21	-	-	-	-	-
22	0.75	RD/L-GN	3140	II	TC2 or UKC	Battery Positive Voltage	22	0.5	RD/L-GN	3140	VII	TC2 or UKC
23	0.5	YE/GY	122	IV	T79	Rear Fog Lamp Supply Voltage	23	0.5	YE/GY	122	VII	T79
24-40	-	-	-	-	-	Not Occupied	24-40	-	-	-	-	-

X500 Driver Door Harness to Body Harness





Connector Part Information

Harness Type: Driver Door

OEM Connector: 13600509

Service Connector: Service by Harness - See Part Catalog

Description: 41-Way F 4.8 TIMER/DSQ 1.5 Series

Connector Part Information

Harness Type: Body

OEM Connector: 13946876

Service Connector: 13587760

Description: 41-Way M 1.5, 2.8 Series (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575531	J-35616-42 (RD)	J-38125-36	964328-1	25	Not Available	Not Available
II	13575539	J-35616-14 (GN)	J-38125-560	962943-5	16	E	A
III	13575537	J-35616-14 (GN)	J-38125-560	962943-5	16	Not Available	Not Available
IV	13575531	J-35616-42 (RD)	J-38125-36	964328-1	25	4	B
V	13575537	J-35616-14 (GN)	J-38125-560	962943-5	16	E	A
VI	13575760	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1
VII	13327144	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1
VIII	13582220	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
IX	13575556	J-35616-14 (GN)	J-38125-560	964265-2	28	C	A
X	13327176	J-35616-14 (GN)	J-38125-560	964265-2	28	E	C
XI	13327176	J-35616-14 (GN)	J-38125-560	964265-2	28	E	2
XII	13327174	J-35616-14 (GN)	J-38125-560	964265-2	28	E	2
XIII	13575706	J-35616-42 (RD)	J-38125-36	Not Available	Not Available	Not Available	Not Available
XIV	13578869	J-35616-14 (GN)	J-38125-560	964265-2	28	E	2
XV	13327150	J-35616-14 (GN)	J-38125-560	964265-2	28	E	2
XVI	13580818	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	E	C

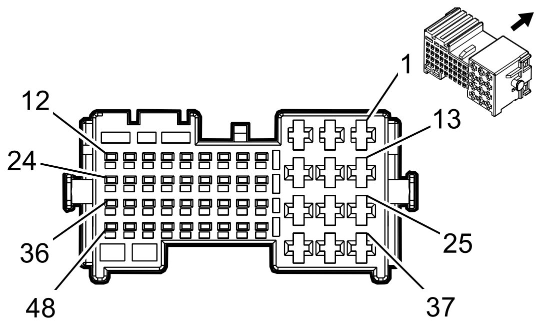
X500 Driver Door Harness to Body Harness

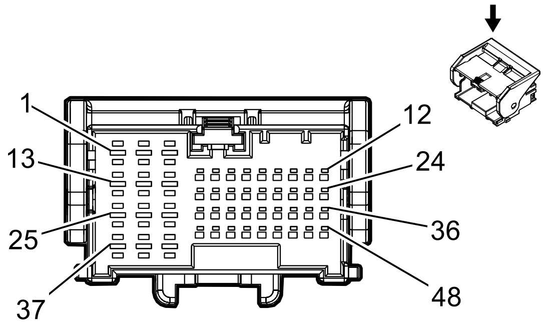
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option

1	2.5	RD/D-BU	1842	I	-	Battery Positive Voltage	1	2.5	RD/D-BU	1842	VIII	-
2	4	BK	1150	IV	-	Ground	2	4	BK	1150	XIII	-
3	0.5	GY/WH	5996	V	DL3 or DR4	Driver Outside Rear View Mirror Puddle Lamp Supply Voltage	3	0.5	GY/L-GN	5996	XI	DL3 or DR4
4	0.35 0.55	BK/WH WH	2551 3398	III	UVH without A45	Signal Ground Co-Driver Mirror Motor Common Control	4	0.35 0.5	BK/WH WH	2551 3398	XII	UVH without A45
5	0.35	YE/WH	1690	III	DD8	Automatic Day/Night Mirror Signal	5	0.35	YE/WH	1690	XII	DD8
6	0.35	BK/YE	1691	III	DD8	Automatic Day/Night Mirror Low Reference	6	0.35	BK/YE	1691	XII	DD8
7	0.35 0.5	D-BU/L-GN WH/L-GN	614 3412	III	A45 DL3 or DR4 without A45	Memory Seat Switch Set Signal Driver Mirror Motor Fold In Control	7	0.35 0.5	D-BU/L-GN WH/L-GN	614 3412	XII	A45 DL3 or DR4 without A45
8	0.35 0.5	WH GY/WH	615 3411	III	A45 DL3 or DR4 without A45	Memory Seat Switch Signal (1) Driver Mirror Motor Fold Out Control	8	0.35 0.5	WH GY/WH	615 3411	XII	A45 DL3 or DR4 without A45
9	0.75	YE/GY	1956	II	UQH	Left Front Tweeter Speaker (-)	9	0.75	YE/GY	1956	XI	UQH
10	1	D-BU	201	II	-	Left Front Speaker (+) (1)	10	1	D-BU	201	IX	-
11	0.5	WH/BN	6201	V	UVH	Camera Supply Voltage	11	0.5	WH/BN	6201	XI	UVH
12	0.35	WH/L-GN	2628	III	UVH	Left Side Vision Camera Video Signal (+)	12	0.35	WH/L-GN	2628	XII	UVH
13	0.35	GY/L-GN	2625	III		Left Side Vision Camera Video Signal (-)	13	0.35	GY/L-GN	2625	XII	
14	0.35	OG/L-GN	2132	III	-	Left Front Side Impact Sensing Module Signal	14	0.35	OG/L-GN	2132	XII	-
15	0.35	BK/OG	6628	III	-	Left Front Side Impact Sensing Module Low Reference	15	0.35	BK/OG	6628	XII	-
16	0.35	WH	6816	III	-	Indicator Dimming Control	16	0.35	WH	6816	XI	
17	0.35	BN/WH	781	III	-	Driver Door Lock Switch Unlock Signal	17	0.35	BN/WH	781	XII	-
18	0.35	BN/YE	780	III	-	Driver Door Lock Switch Lock Signal	18	0.35	BN/YE	780	XII	-
19	0.75	BN/YE	294	II	-	Door Lock Actuator Unlock Control	19	0.75	BN/YE	294	X	-
20	0.75	GY	5911	II	-	Door Lock Actuator Lock Control 2	20	0.75	GY	5911	X	-

						Lock Control 2						
21	0.35	BK/D-BU	5978	III	-	Memory Switch Low Reference	21	0.35	BK/D-BU	5978	XII	-
22	0.75	YE/D-BU	1856	II	UQH	Left Front Tweeter Speaker (+)	22	0.75	YE/D-BU	1856	X	UQH
23	1	BN/D-BU	118	II	-	Left Front Speaker Signal (-) (1)	23	1	BN/D-BU	118	IX	-
24	0.35	WH/YE	3574	III	BTM	Driver Door Open Switch Signal	24	0.35	WH/YE	3574	XIV	BTM
25	0.35	L-GN/WH	3570	III	ATH	Driver Door Handle Switch Signal	25	0.35	L-GN/WH	3570	XIV	ATH
26	0.35	Bare	2624	III	UVH	Left Side Vision Camera Video Drain Wire	26	0.35	Bare	2624	XII	UVH
27	0.35	VT/GY	3561	III	ATH	Passive Entry Driver Door Antenna Signal Lo	27	0.35	VT/GY	3561	XIV	ATH
28	0.35	VT	3560	III	ATH	Passive Entry Driver Door Antenna Signal Hi	28	0.35	VT	3560	XIV	ATH
29	0.35	YE	6817	III	-	LED Backlight Dimming Control	29	0.35	YE	6817	XII	-
30	0.35	WH/YE	7557	III	-	LED Ambient Lighting Control 1	30	0.35	WH/YE	7557	XII	-
31	0.5	BN/YE	2267	V	DL3 or DR4	Mirror Heating Element Supply Voltage	31	0.5	BN/YE	2267	XI	DL3 or DR4
32	0.35	GY	5697	III	-	Child Lockout Indicator	32	0.35	GY	5697	XII	-
33	0.5	L-GN/YE	6134	V	-	Linear Interconnect Network Bus 3	33	0.5	L-GN/YE	6134	XI	-
34	0.5	L-GN/WH	7530	V	A45	Linear Interconnect Network Bus 8	34	0.5	L-GN/WH	7530	XI	A45
35	0.35	YE/BN	3265	III	-	Child Security Lock Switch Signal	35	0.35	YE/BN	3265	XII	-
36	0.5	L-GN/BK	3396	III	without A45	Co-Driver Mirror Motor Right (+) Left (-) Control	36	0.5	L-GN/BK	3396	XII	without A45
37	0.35	GY/YE	5853	III	UKC	Driver Side Object Detection LED Signal (1)	37	0.35	GY/YE	5853	XII	UKC
38	0.5	YE/VT	3397	III	without A45	Co-Driver Mirror Motor Up (+) Down (-) Control	38	0.5	YE/VT	3397	XII	without A45
39	0.75	BN	5910	II	UTT	Door Double Lock Actuator Lock Control	39	0.75	BN	5910	X	UTT
40	0.5	RD/VT	1940	III	-	Battery Positive Voltage	40	0.5	RD/VT	1940	XI	-
41	0.5	D-BU/WH	1314	VI	DL3 or DR4	Left Front Turn Signal Lamp Supply Voltage	41	0.75	D-BU/WH	1314	X	DL3 or DR4

X505 Driver Door Harness to Driver Door Trim Harness





Connector Part Information

Harness Type: Driver Door

OEM Connector: 13889713

Service Connector: Service by Harness - See Part Catalog

Description: 48-Way F 1.2 MCON, 2.8 MCP Series

Connector Part Information

Harness Type: Driver Door Trim

OEM Connector: 15512031

Service Connector: Service by Harness - See Part Catalog

Description: 48-Way M 1.2 MCON, 2.8 MCP Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	13582286	J-35616-35 (VT)	J-38125-557	1241390-1	17	C	A
III	Not Available	J-35616-35 (VT)	J-38125-557	1-968857-3	7	Not Available	Not Available
IV	13327151	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
V	13575529	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available

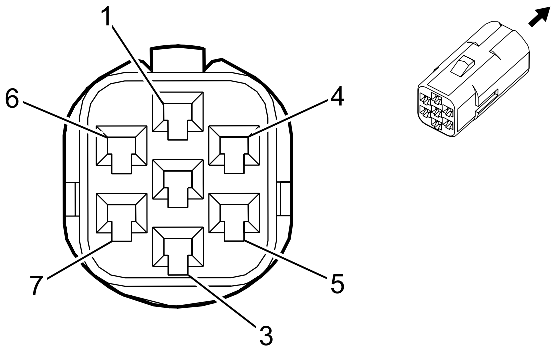
X505 Driver Door Harness to Driver Door Trim Harness

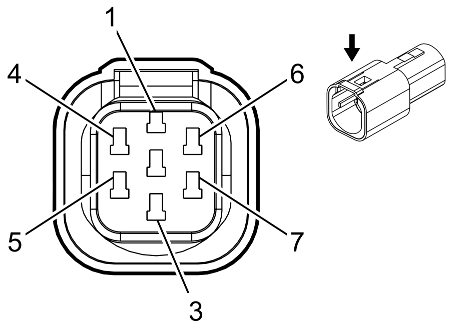
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	YE	6817	I	-	LED Backlight Dimming Control	1	0.35 0.35	YE YE	6817 6817	IV	-
2	0.35	WH/YE	7557	I	-	LED Ambient Lighting Control 1	2	0.35	WH/YE	7557	V	-
3	0.35	WH	6816	I	-	Indicator Dimming Control	3	0.35	WH	6816	V	-
4	-	-	-	-	-	Not Occupied	4	-	-	-	-	-
5	0.35	BN/BK	3389	I	without A45	Driver Mirror Motor Right (+) Left (-) Control	5	0.35	BN/BK	3389	I	without A45
6	0.35	VT/D-BU	3390	I	-	Driver Mirror Motor Up (+) Down (-) Control	6	0.35	VT/D-BU	3390	I	-
7	0.35	YE/BN	3391	I	-	Driver Mirror Motor Common Control	7	0.35	YE/BN	3391	I	-
8	0.5	GY/WH	3411	I	DL3 or DR4 with	Driver Mirror Motor Fold	8	0.5	GY/WH	3411	I	DL3 or DR4 with A45

					A45	Out Control					
9	0.5	WH/L-GN	3412	I	DL3 or DR4 with A45	Driver Mirror Motor Fold In Control	9	0.5	WH/L-GN	3412	I	DL3 or DR4 with A45
10	0.35	GY/BN	3394	I	A45	Driver Mirror Position Sensor Up (+) Down (-) Signal	10	0.35	GY/BN	3394	I	A45
11	0.35	BN/BK	3389	I	A45	Driver Mirror Motor Right (+) Left (-) Control	11	0.35	BN/BK	3389	I	A45
12	0.35	VT/RD	3392	I	A45	Driver Mirror Position Sensor High Reference	12	0.35	VT/RD	3392	I	A45
13	0.35	WH/YE	3395	I	A45	Driver Mirror Position Sensor Left (-) Right (+) Signal	13	0.35	WH/YE	3395	V	A45
14	0.35	BK/BN	3393	I	A45	Driver Mirror Position Sensor Low Reference	14	0.35	BK/BN	3393	V	A45
15-16	-	-	-	-	-	Not Occupied	15-16	-	-	-	-	-
17	0.35	BK	1150	I	-	Ground	17	0.35	BK	1150	I	-
18-19	-	-	-	-	-	Not Occupied	18-19	-	-	-	-	-
20	0.75	YE/D-BU	1856	I	UQH	Left Front Tweeter Speaker (+)	20	0.75	YE/D-BU	1856	I	UQH
21	0.75	YE/GY	1956	I	UQH	Left Front Tweeter Speaker (-)	21	0.75	YE/GY	1956	I	UQH
22	0.35	RD/VT	1940	I	-	Battery Positive Voltage	22	0.35	RD/VT	1940	I	-
23	0.75	BK	1150	I	-	Ground	23	0.75	BK	1150	I	-
24	-	-	-	-	-	Not Occupied	24	-	-	-	-	-
25	0.5	GY/WH	3411	I	DL3 or DR4 without A45	Driver Mirror Motor Fold Out Control	25	0.5	GY/WH	3411	IV	DL3 or DR4 without A45
26	0.5	WH/L-GN	3412	I	DL3 or DR4 without A45	Driver Mirror Motor Fold In Control	26	0.5	WH/L-GN	3412	IV	DL3 or DR4 without A45
27-28	-	-	-	-	-	Not Occupied	27-28	-	-	-	-	-
29	0.35	GY	1136	I	-	Power Window Master Switch Left Front Down Signal	29	0.35	GY	1136	I	
30	0.35	L-GN/WH	1300	I	-	Power Window Master Switch Left Front Up Signal	30	0.35	L-GN/WH	1300	I	-
31	0.35	L-GN/VT	7628	I	-	Power Window Motor Left Front Express Control	31	0.35	L-GN/VT	7628	I	-
32	0.35	BK/D-BU	5978	I	A45	Memory Switch Low Reference	32	0.35	BK/D-BU	5978	I	A45
33	0.35	D-BU/L-GN	614	I	A45	Memory Seat Switch	33	0.35	D-BU/L-GN	614	I	A45

						Set Signal					
34	0.35	WH	615	I	A45	Memory Seat Switch Signal (1)	34	0.35	WH	615	I	A45
35	-	-	-	-	-	Not Occupied	35	-	-	-	-	-
36	0.5	L-GN/YE	6134	I	-	Linear Interconnect Network Bus 3	36	0.5	L-GN/YE	6134	I	-
37	0.5	L-GN/WH	7530	I	A45	Linear Interconnect Network Bus 8	37	0.5	L-GN/WH	7530	IV	A45
38	1 1	BN/D-BU BN/D-BU	118 118	II	UQH	Left Front Speaker Signal (-) (1)	38	0.75	D-BU	201	IV	UQH
39	1 1	D-BU D-BU	201 201	II	UQH	Left Front Speaker (+) (1)	39	0.75	BN/D-BU	118	IV	UQH
40	0.35	YE/BN	3265	I	-	Child Security Lock Switch Signal	40	0.35	YE/BN	3265	I	-
41	0.35	WH/VT	3270	I	-	Driver Door Lock Motor Status	41	0.35	WH/VT	3270	I	-
42	0.35	L-GN/BK	3396	I	without A45	Co-Driver Mirror Motor Right (+) Left (-) Control	42	0.35	L-GN/BK	3396	I	without A45
43	0.35	YE/VT	3397	I	without A45	Co-Driver Mirror Motor Up (+) Down (-) Control	43	0.35	YE/VT	3397	I	without A45
44	0.35	WH	3398	I	without A45	Co-Driver Mirror Motor Common Control	44	0.35	WH	3398	I	without A45
45	0.35	GY	5697	I	-	Child Lockout Indicator	45	0.35	GY	5697	I	-
46	0.35	D-BU/VT	1124	I	-	Door Lock Key Switch Unlock Signal	46	0.35	D-BU/VT	1124	I	-
47	0.35	BN/WH	781	I	-	Driver Door Lock Switch Unlock Signal	47	0.35	BN/WH	781	I	-
48	0.35	BN/YE	780	I	-	Driver Door Lock Switch Lock Signal	48	0.35	BN/YE	780	I	-

X515 Left OSRVM Camera Jumper to Door Driver Harness (UVH)





Connector Part Information

Harness Type: OSRVM Camera Jumper — Driver

OEM Connector: 13576423

Service Connector: Service by Harness - See Part Catalog

Description: 7–Way F Multi-Lock Series (GN)

Connector Part Information

Harness Type: Driver Door

OEM Connector: 10846470

Service Connector: Service by Harness - See Part Catalog

Description: 7-Way M 0.8 Series, Sealed (L-GN)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X515 Left OSRVM Camera Jumper to Door Driver Harness (UVH)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	WH/GN	2628	I	-		1	0.35	WH/L-GN	2628	I	
2	0.35	BK	2624	I	-	Left Side Vision Camera Video Drain Wire	2	0.35	BK	2624	I	-
3	-	-	-	-	-	Not Occupied	3	-	-	-	-	-
4	0.35	GY/GN	2625	I	-	Left Side Vision Camera Video Signal (-)	4	0.35	GY/L-GN	2625	I	
5	0.35	BK/WH	2551	I	-	Signal Ground	5	0.35	BK/WH	2551	I	-
6	0.5	WH/BN	6201	I	-	Camera Supply Voltage	6	0.5	WH/BN	6201	I	-
7	-	-	-	-	-	Not Occupied	7	-	-	-	-	-

X525 Driver OSRVM Harness to Driver OSRVM Glass Harness

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Connector Part Information

Harness Type: Outside Rearview Mirror — Driver

OEM Connector: 794617–6

Service Connector: Service by Harness — See Part Catalog

Description: 6–Way F Micro Mate-N-Lok series (BK)

Connector Part Information

Harness Type: Outside Rearview Mirror Glass — Driver

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 6–Way M Micro Mate-N-Lok series (BK)

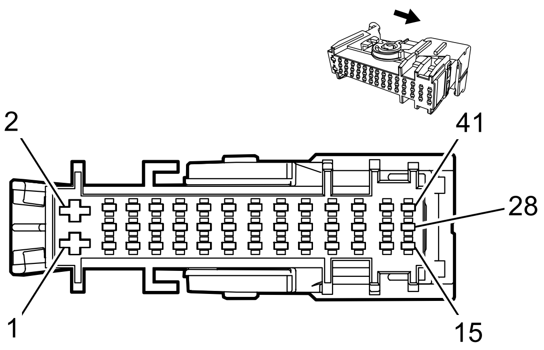
Terminal Part Information

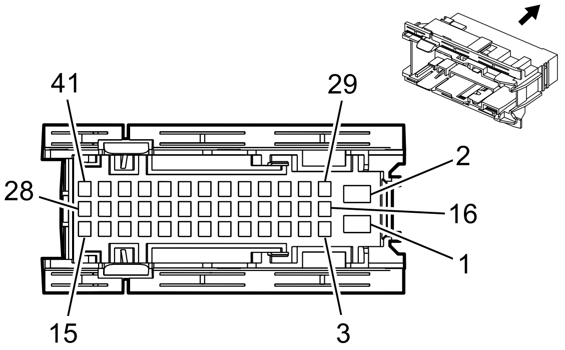
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X525 Driver OSRVM Harness to Driver OSRVM Glass Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	BN/BK	1691	I	DL3 or DR4	Automatic Day/Night Mirror Low Reference	1	0.35	BN/BK	1691	II	DL3 or DR4
2	0.35	BK/WH	1150	I	DL3, DR4 or UKC	Ground	2	0.35	BK/WH	1150	II	DL3, DR4 or UKC
3	0.35	RD/BU	1314	I	DL3 or DR4	Left Front Turn Signal Lamp Supply Voltage	1	0.35	RD/BU	1314	II	DL3 or DR4
4	0.35	BN/D-BU	1690	I	DD8	Automatic Day/Night Mirror Signal	2	0.35	BN/D-BU	1690	II	DD8
5	0.35	BK/WH	1150	I	DL3, DR4 or UKC	Ground	1	0.35	BK/WH	1150	II	DL3, DR4 or UKC
6	0.35	BK/YE	5853	I	UKC	Driver Side Object Detection LED Signal (1)	2	0.35	BK/YE	5853	II	UKC

X600 Passenger Door Harness to Body Harness





Connector Part Information

Harness Type: Passenger Door

OEM Connector: 13600509

Service Connector: Service by Harness - See Part Catalog

Description: 41-Way F 4.8 TIMER/DSQ 1.5 Series

Connector Part Information

Harness Type: Body

OEM Connector: 13946876

Service Connector: 13587760

Description: 41-Way M 1.5, 2.8 Series (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575531	J-35616-42 (RD)	J-38125-36	964328-1	25	Not Available	Not Available
II	13575539	J-35616-14 (GN)	J-38125-560	962943-5	16	E	A
III	13575537	J-35616-14 (GN)	J-38125-560	962943-5	16	E	A
IV	13575537	J-35616-14 (GN)	J-38125-560	962943-5	16	Not Available	Not Available
V	13575760	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1
VI	13327144	J-35616-14 (GN)	J-38125-560	964274-2	16	E	1
VII	13575857	J-35616-42 (RD)	J-38125-36	Not Available	Not Available	Not Available	Not Available
VIII	13327176	J-35616-14 (GN)	J-38125-560	964265-2	28	E	C
IX	13579964	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	2	4
X	13327176	J-35616-14 (GN)	J-38125-560	964265-2	28	E	2
XI	13327174	J-35616-14 (GN)	J-38125-560	964265-2	28	E	2
XII	13582220	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
XIII	13575556	J-35616-14 (GN)	J-38125-560	964265-2	28	C	A
XIV	13327150	J-35616-14 (GN)	J-38125-560	964265-2	28	E	2
XV	13578869	J-35616-14 (GN)	J-38125-560	964265-2	28	E	2

X600 Passenger Door Harness to Body Harness

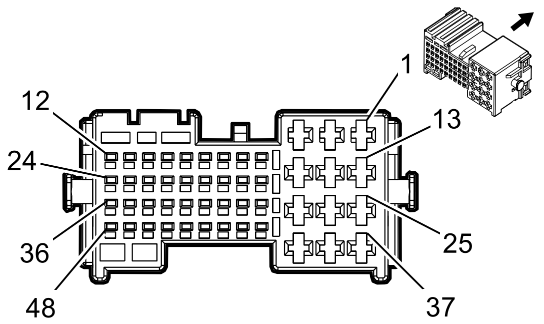
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	RD/WH	1340	I	-	Battery Positive Voltage	1	2.5	RD/WH	1340	VII	-

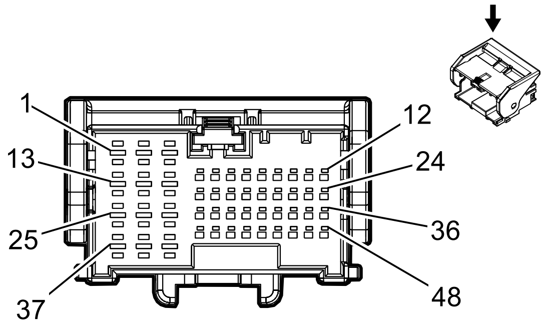
2	2.5	BK	1250	I	-	Ground	2	2.5	BK	1250	XII	-
3	0.5	GY/L-GN	5996	III	-	Driver Outside Rear View Mirror Puddle Lamp Supply Voltage	3	0.5	GY/L-GN	5996	X	-
4	0.35 0.5	WH WH	3398 3398	IV	-	Co-Driver Mirror Motor Common Control Co-Driver Mirror Motor Common Control	4	0.35 0.5	WH WH	3398 3398	XI	-
5	-	-	-	-	-	Not Occupied	5	-	-	-	-	-
6	0.35	WH	6816	IV	-	Indicator Dimming Control	6	0.35	WH	6816	XV	-
7	0.5	WH/L-GN	3412	III	-	Driver Mirror Motor Fold In Control	7	0.5	WH/L-GN	3412	X	-
8	0.5	GY/WH	3411	III	-	Driver Mirror Motor Fold Out Control	8	0.5	GY/WH	3411	X	-
9	0.75	VT/BN	1952	II	-	Right Front Tweeter Speaker (-)	9	0.5 0.75	WH/VT VT/BN	1430 1952	X	-
10	1	YE/BK	117	II	-	Right Front Speaker Signal (-) (1)	10	0.75 1	YE/BK YE/BK	117 117	VIII	-
11	0.5	RD/D-BU	840	III	-	Battery Positive Voltage	11	0.5 0.5	GY/BN RD/D-BU	309 840	X	-
12	0.35	WH/D-BU	2627	IV	-		12	0.35	WH/D-BU	2627	XI	-
13	0.35	GY/D-BU	2626	IV	-		13	0.35	GY/D-BU	2626	XI	-
14	0.35 0.5 0.5	BN/OG BN/OG OG/L-GN	2134 2134 2134	IV	-	Right Front Side Impact Sensing Module Signal Right Front Side Impact Sensing Module Signal Right Front Side Impact Sensing Module Signal	14	0.35	BN/OG	2134	XI	-
15	0.35 0.5	BK/OG BK/OG	6629 6629	IV	-	Right Front Side Impact Sensing Module Low Reference Right Front Side Impact Sensing Module Low Reference	15	0.35	BK/OG	6629	XI	-
16	-	-	-	-	-	Not Occupied	16	-	-	-	-	-
17	0.35	BN/VT	245	IV	-	Passenger Door Lock Switch Unlock Control	17	0.35	BN/VT	245	XI	-
18	0.35 0.35	YE/VT YE/BK	244 244	IV	-	Passenger Door Lock Switch Lock Control Passenger Door Lock Switch Lock Control	18	0.35	YE/VT	244	XI	-
19	0.75	BN/YE	294	II	-	Door Lock Actuator Unlock Control	19	0.75	BN/YE	294	VIII	-

						Unlock Control						
20	0.75	GY	295	II	-	Door Lock Actuator Lock Control	20	0.75	GY	295	VIII	-
21							21	0.35	BK/D-BU	61	XI	-
22	0.75	BN/L-GN	1852	II	-	Right Front Tweeter Speaker (+)	22	0.75	BN/L-GN	1852	VIII	-
23	1	YE	200	II	-	Right Front Speaker (+) (1)	23	1 0.75	YE YE	200 200	XIII	-
24							24	0.35	D-BU/GY	636	XI	-
25	0.35	VT/WH	3571	IV	-	Co_Driver Door Handle Switch Signal	25	0.35	VT/WH	3571	XV	-
26	0.35 0.5	Bare Bare	2623 2623	IV	-		26	0.35	Bare	2623	XI	-
27	0.35	L-GN/BK	3563	IV	-	Passive Entry Co_Driver Door Antenna Signal Lo	27	0.35	L-GN/BK	3563	XV	-
28	0.35	L-GN/YE	3562	IV	-	Passive Entry Co_Driver Door Antenna Signal Hi	28	0.35	L-GN/YE	3562	XV	-
29	0.35	YE	6817	IV	-	LED Backlight Dimming Control	29	0.35 0.5	YE YE	6817 6817	XI	-
30	0.35	WH/YE	7557	IV	-	LED Ambient Lighting Control 1	30	0.35	WH/YE	7557	XI	-
31	0.5 0.5	BN/YE BN/OG	2267 2267	III	-	Mirror Heating Element Supply Voltage Mirror Heating Element Supply Voltage	31	0.5	BN/YE	2267	X	-
32	-	-	-	-	-	Not Occupied	32	-	-	-	-	-
33	0.5	L-GN/YE	6134	III	-	Linear Interconnect Network Bus 3	33	0.5	L-GN/YE	6134	X	-
34	0.5	L-GN/WH	7530	III	-	Linear Interconnect Network Bus 8	34	0.5	L-GN/WH	7530	X	-
35	0.5	WH/BN	6201	III	-	Camera Supply Voltage	35	0.5	WH/BN	6201	X	-
36	0.35 0.5	L-GN/BK L-GN/BK	3396 3396	IV	-	Co-Driver Mirror Motor Right (+) Left (-) Control Co-Driver Mirror Motor Right (+) Left (-) Control	36	0.35 0.5	L-GN/BK L-GN/BK	3396 3396	XI	-
37	0.35	GY	5861	IV	-	Passenger Side Object Detection LED Signal (1)	37	0.35	GY	5861	XV	-
38	0.35 0.5	YE/VT YE/VT	3397 3397	IV	-	Co-Driver Mirror Motor Up (+) Down (-) Control Co-Driver Mirror Motor	38	0.35 0.5	YE/VT YE/VT	3397 3397	XI	-

						Up (+) Down (-) Control					
39	0.75	BN	5910	II	-	Door Double Lock Actuator Lock Control	39	0.75	BN	5910	VIII	-
40	0.35	BK/WH	2551	IV	-	Signal Ground	40	0.35	BK/WH	2551	XI	-
41	0.5 0.75	L-GN/VT L-GN/VT	1315 1315	V	-	Right Front Turn Signal Lamp Supply Voltage Right Front Turn Signal Lamp Supply Voltage	41	0.75	L-GN/VT	1315	VIII	-

X605 Passenger Door Harness to Passenger Door Trim Harness





Connector Part Information

Harness Type: Passenger Door

OEM Connector: 13889713

Service Connector: Service by Harness - See Part Catalog

Description: 48-Way F 1.2 MCON, 2.8 MCP Series

Connector Part Information

Harness Type: Passenger Door

OEM Connector: 13889712

Service Connector: Service by Harness - See Part Catalog

Description: 48-Way M 1.2 MCON, 2.8 MCP Series

Harness Type: Passenger Door Trim

OEM Connector: 13889712

Service Connector: Service by Harness - See Part Catalog

Description: 48-Way M 1.2 MCON, 2.8 MCP Series

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	13582286	J-35616-35 (VT)	J-38125-557	1241390-1	17	C	A
III	Not Available	J-35616-35 (VT)	J-38125-557	1-968857-3	7	Not Available	Not Available
IV	13327151	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
V	13575529	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available

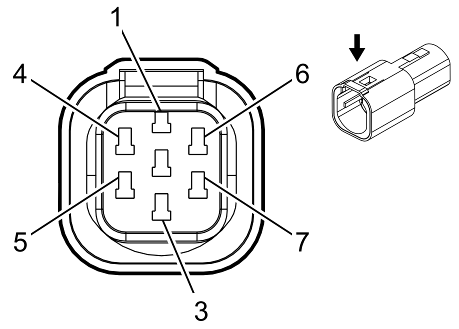
X605 Passenger Door Harness to Passenger Door Trim Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	YE	6817	I	-	LED Backlight Dimming Control	1	0.35	YE	6817	IV	-
2	0.35	WH/YE	7557	I	-	LED Ambient Lighting Control 1	2	0.35	WH/YE	7557	V	-
3	0.35	WH	6816	I	-	Indicator Dimming Control	3	0.35	WH	6816	V	-
4-5	-	-	-	-	-	Not Occupied	4-5	-	-	-	-	-
6	0.35 0.5	YE/VT YE/VT	3397 3397	I	-	Co-Driver Mirror Motor Up (+) Down (-) Control Co-Driver Mirror Motor Up (+) Down (-) Control	6	0.35	YE/VT	3397	I	-
7	0.35	WH	3398	I	-	Co-Driver Mirror Motor	7	0.35	WH	3398	I	-

7	0.35 0.5	WH WH	3398 3398	I	-	Co-Driver Mirror Motor Common Control Co-Driver Mirror Motor Common Control	7	0.35	WH	3398	I	-
8	0.5 0.5	YE/WH YE/GY	3413 3413	I	-	Co-Driver Mirror Motor Fold Out Control Co-Driver Mirror Motor Fold Out Control	8	0.5	YE/WH	3413	I	-
9	0.5	D-BU/GY	3414	I	-	Co-Driver Mirror Motor Fold In Control	9	0.5	D-BU/GY	3414	I	-
10	0.35	D-BU/YE	3401	I	-	Co-Driver Mirror Position Sensor Up (+) Down (-) Signal	10	0.35	D-BU/YE	3401	I	-
11	0.35 0.5	L-GN/BK L-GN/BK	3396 3396	I	-	Co-Driver Mirror Motor Right (+) Left (-) Control Co-Driver Mirror Motor Right (+) Left (-) Control	11	0.35	L-GN/BK	3396	I	-
12	0.35	YE/RD	3399	I	-	Co-Driver Mirror Position Sensor High Reference	12	0.35	YE/RD	3399	I	-
13	0.35	VT/WH	3403	I	-	Co-Driver Mirror Position Sensor Left (-) Right (+) Signal	13	0.35	VT/WH	3403	V	-
14	0.35	BK/L-GN	3400	I	-	Co-Driver Mirror Position Sensor Low Reference	14	0.35	BK/L-GN	3400	V	-
15-16	-	-	-	-	-	Not Occupied	15-16	-	-	-	-	-
17	0.35 0.5	BK BK	1250 1250	I	-	Ground Ground	17	0.35	BK	1250	I	-
18-19	-	-	-	-	-	Not Occupied	18-19	-	-	-	-	-
20	0.75	BN/L-GN	1852	I	-	Right Front Tweeter Speaker (+)	20	0.75	BN/L-GN	1852	I	-
21	0.75	VT/BN	1952	I	-	Right Front Tweeter Speaker (-)	21	0.75	VT/BN	1952	I	-
22	0.5	RD/D-BU	840	I	-	Battery Positive Voltage	22	0.5	RD/D-BU	840	I	-
23-28	-	-	-	-	-	Not Occupied	23-28	-	-	-	-	-
29	0.35	BN/YE	167	I	-	Power Window Master Switch Right Front Down Signal	29	0.35	BN/YE	167	I	-
30	0.35	YE/BK	166	I	-	Power Window Master Switch Right Front Up Signal	30	0.35	YE/BK	166	I	-
31	0.35	VT/GY	2765	I	-	Power Window Switch Right Front Express Signal	31	0.35	VT/GY	2765	I	-
32	-	-	-	-	-	Not Occupied	32	-	-	-	-	-

32	-	-	-	-	-	Not Occupied	32	-	-	-	-	-
33	0.35	VT	4009	I	-	Co-Driver Door Lock Status	33	0.35	VT	4009	I	-
34-36	-	-	-	-	-	Not Occupied	34-36	-	-	-	-	-
37	0.5	L-GN/WH	7530	I	-	Linear Interconnect Network Bus 8	37	0.5	L-GN/WH	7530	V	-
38	1	YE/BK	117	II	-	Right Front Speaker Signal (-) (1)	38	0.75	YE	200	IV	-
39	1	YE	200	II	-	Right Front Speaker (+) (1)	39	0.75	YE/BK	117	IV	-
40-46	-	-	-	-	-	Not Occupied	40-46	-	-	-	-	-
47	0.35	BN/VT	245	I	-	Passenger Door Lock Switch Unlock Control	47	0.35	BN/VT	245	I	-
48	0.35 0.35	YE/VT YE/BK	244 244	I	-	Passenger Door Lock Switch Lock Control Passenger Door Lock Switch Lock Control	48	0.35	YE/VT	244	I	-

X615 Outside Rearview Mirror Jumper to Passenger Door Harness (UVH)



Connector Part Information

Harness Type:

OEM Connector:

Service Connector: Service by Harness - See Part Catalog

Description: 7 F

Connector Part Information

Harness Type: Passenger Door

OEM Connector: 10846470

Service Connector: Service by Harness - See Part Catalog

Description: 7-Way M 0.8 Series, Sealed (L-GN)

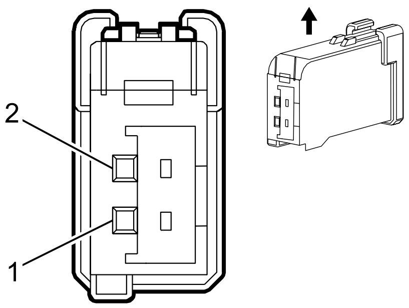
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X615 Outside Rearview Mirror Jumper to Passenger Door Harness (UVH)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	WH/D-BU	2627	I	-		1	0.35	WH/D-BU	2627	I	-
2	0.35	BK	2623	I	-		2	0.35	BK	2623	I	-
3	-	-	-	-	-	Not Occupied	3	-	-	-	-	-
4	0.35	GY/D-BU	2626	I	-		4	0.35	GY/D-BU	2626	I	-
5	0.35	BK/WH	2551	I	-	Signal Ground	5	0.35	BK/WH	2551	I	-
6	0.5	WH/BN	6201	I	-	Camera Supply Voltage	6	0.5	WH/BN	6201	I	-
7	-	-	-	-	-	Not Occupied	7	-	-	-	-	-

X625 Passenger OSRVM Harness to Passenger OSRVM Glass Harness



Connector Part Information

Harness Type: Passenger Door

OEM Connector: 13595633

Service Connector: 13314093

Description: 2-Way F 0.64 Kaizen Series (BK)

Connector Part Information

Harness Type:

OEM Connector:

Service Connector: Service by Harness - See Part Catalog

Description: 2 M

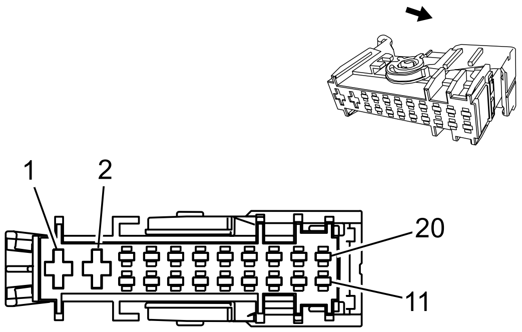
Terminal Part Information

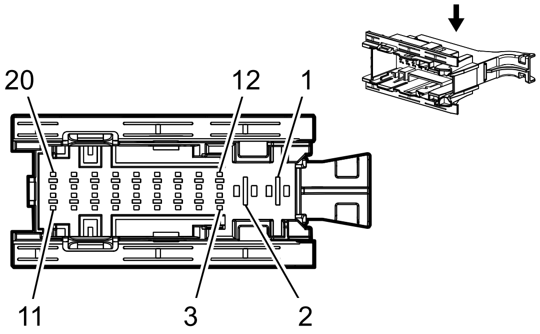
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13579945	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
II	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X625 Passenger OSRVM Harness to Passenger OSRVM Glass Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	YE	200	I	-	Right Front Speaker (+) (1)	1	0.75	YE	200	II	-
2	0.75	YE/BK	117	I	-	Right Front Speaker Signal (-) (1)	2	0.75	YE/BK	117	II	-

X700 Left Rear Door Harness to Body Harness





Connector Part Information

Harness Type: Left Rear Door

OEM Connector: 13600493

Service Connector: Service by Harness - See Part Catalog

Description: 20-Way F 1.5, 4.8 Timer DSQ Series (GY)

Connector Part Information

Harness Type: Body

OEM Connector: 13600495

Service Connector: 13576560

Description: 20-Way M 1.5, 5.8 Timer Series (GY)

Terminal Part Information

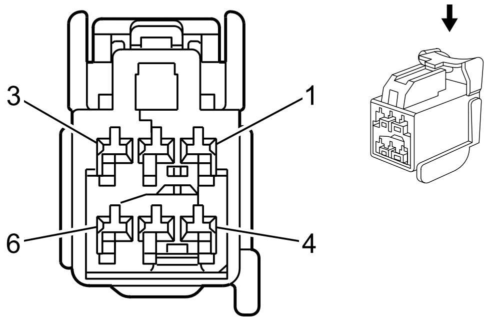
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327148	J-35616-42 (RD)	J-38125-36	927837-1	25	A	D
II	13575539	J-35616-14 (GN)	J-38125-560	962943-5	16	E	A
III	13575537	J-35616-14 (GN)	J-38125-560	962943-5	16	E	A
IV	13575537	J-35616-14 (GN)	J-38125-560	962943-5	16	Not Available	Not Available
V	13575531	J-35616-42 (RD)	J-38125-36	964328-1	25	4	B
VI	13575857	J-35616-42 (RD)	J-38125-36	Not Available	Not Available	Not Available	Not Available
VII	13327176	J-35616-14 (GN)	J-38125-560	964265-2	28	E	C
VIII	13575556	J-35616-14 (GN)	J-38125-560	964265-2	28	C	A
IX	13327176	J-35616-14 (GN)	J-38125-560	964265-2	28	E	2
X	13327174	J-35616-14 (GN)	J-38125-560	964265-2	28	E	2
XI	13575706	J-35616-42 (RD)	J-38125-36	Not Available	Not Available	Not Available	Not Available
XII	13582220	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
XIII	13327150	J-35616-14 (GN)	J-38125-560	964265-2	28	E	2
XIV	13578869	J-35616-14 (GN)	J-38125-560	964265-2	28	E	2

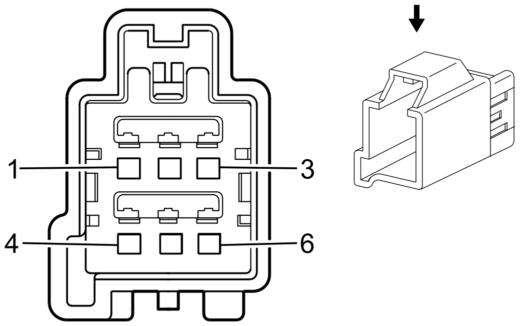
X700 Left Rear Door Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	RD/D-BU	1842	I	-	Battery Positive Voltage	1	2.5	RD/D-BU	1842	VI	-
2	4 3	BK BK	1150 1150	V	-	Ground Ground	2	4	BK	1150	XI	-

	3	BK	1150			Ground						
3	0.35	WH/YE	7557	IV	-	LED Ambient Lighting Control 1	3	0.35	WH/YE	7557	XIV	-
4-6	-	-	-	-	-	Not Occupied	4-6	-	-	-	-	-
7	1	L-GN	199	II	-	Left Rear Speaker (+)	7	1 0.5 0.75	L-GN L-GN L-GN	199 199 199	VIII	-
8	0.35	BN/YE	6157	IV	-	Left Rear Door Handle Switch Signal	8	0.35	BN/YE	6157	XIV	-
9	0.75	WH/D-BU	3266	II	-	Child Security Lock Motor Unlock Control	9	0.75	WH/D-BU	3266	VII	-
10	0.75	BN/YE	294	II	-	Door Lock Actuator Unlock Control	10	0.75	BN/YE	294	VII	-
11	0.75	GY	295	II	-	Door Lock Actuator Lock Control	11	0.75	GY	295	VII	-
12	-	-	-	-	-	Not Occupied	12	-	-	-	-	-
13	0.75	BN	5910	II	-	Door Double Lock Actuator Lock Control	13	0.75	BN	5910	VII	-
14	0.5	GY/L-GN	5996	III	-	Driver Outside Rear View Mirror Puddle Lamp Supply Voltage	14	0.5	GY/L-GN	5996	XIII	-
15	-	-	-	-	-	Not Occupied	15	-	-	-	-	-
16	1	L-GN/BK	116	II	-	Left Rear Speaker Signal (-)	16	1 0.5 0.75	L-GN/BK L-GN/BK L-GN/BK	116 116 116	VIII	-
17							17	0.35	OG/D-BU	6620	X	-
18							18	0.35	BK/OG	6621	X	-
19	0.35	BN/WH	3269	IV	-	Child Security Lock Motor Status Signal Left Rear	19	0.35	BN/WH	3269	X	-
20	0.5	L-GN/GY	6135	III	-	Linear Interconnect Network Bus 4	20	0.5	L-GN/GY	6135	IX	-

X705 Left Rear Door Harness to Left Rear Door Trim Harness (Z75)





Connector Part Information

Harness Type: Left Rear Door

OEM Connector: 10846805

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 1.5 Kaizen Series (L-GY)

Connector Part Information

Harness Type: Left Rear Door Trim

OEM Connector: 10846804

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way M 1.5 Series (L-GY)

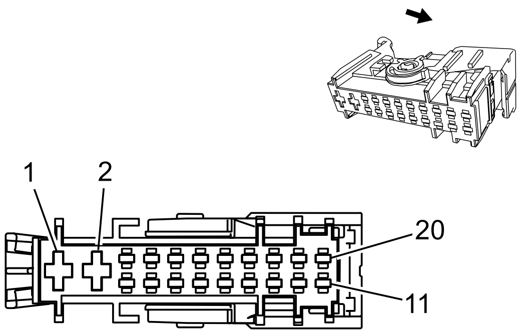
Terminal Part Information

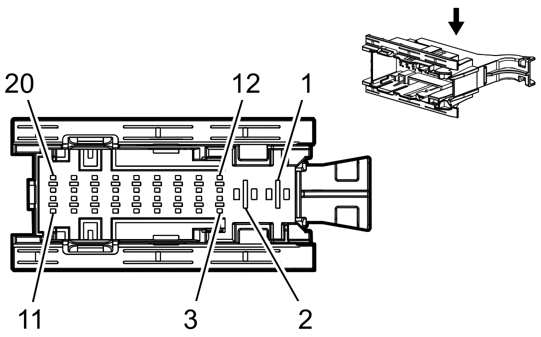
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	13575708	J-35616-2A (GY)	J-38125-11A	7116-4101-08	9	E	A
III	13575816	J-35616-3 (GY)	J-38125-553	7114-4100-08	9	E	C
IV	Not Available	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available

X705 Left Rear Door Harness to Left Rear Door Trim Harness (Z75)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	-	-	-	-	Not Occupied	1	-	-	-	-	-
2	0.35	WH/YE	7557	I	-	LED Ambient Lighting Control 1	2	0.35	WH/YE	7557	III	-
3	0.75	L-GN/BK	116	II	-	Left Rear Speaker Signal (-)	3	0.75	L-GN/BK	116	IV	-
4	-	-	-	-	-	Not Occupied	4	-	-	-	-	-
5	0.35 0.5	BK BK	1150 1150	I	-	Ground Ground	5	0.35	BK	1150	III	-
6	0.75	L-GN	199	II	-	Left Rear Speaker (+)	6	0.75	L-GN	199	IV	-

X800 Right Rear Door Harness to Body Harness





Connector Part Information

Harness Type: Right Rear Door

OEM Connector: 13600493

Service Connector: Service by Harness - See Part Catalog

Description: 20-Way F 1.5, 4.8 Timer DSQ Series (GY)

Connector Part Information

Harness Type: Body

OEM Connector: 13600495

Service Connector: 13576560

Description: 20-Way M 1.5, 5.8 Timer Series (GY)

Terminal Part Information

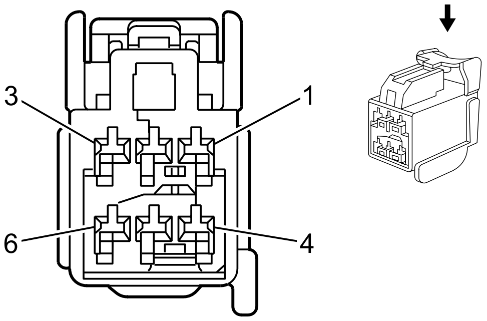
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327148	J-35616-42 (RD)	J-38125-36	927837-1	25	A	D
II	13575539	J-35616-14 (GN)	J-38125-560	962943-5	16	E	A
III	13575537	J-35616-14 (GN)	J-38125-560	962943-5	16	E	A
IV	13575537	J-35616-14 (GN)	J-38125-560	962943-5	16	Not Available	Not Available
V	13575857	J-35616-42 (RD)	J-38125-36	Not Available	Not Available	Not Available	Not Available
VI	13327176	J-35616-14 (GN)	J-38125-560	964265-2	28	E	C
VII	13575556	J-35616-14 (GN)	J-38125-560	964265-2	28	C	A
VIII	13327176	J-35616-14 (GN)	J-38125-560	964265-2	28	E	2
IX	13327174	J-35616-14 (GN)	J-38125-560	964265-2	28	E	2
X	13582220	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
XI	13327150	J-35616-14 (GN)	J-38125-560	964265-2	28	E	2
XII	13578869	J-35616-14 (GN)	J-38125-560	964265-2	28	E	2

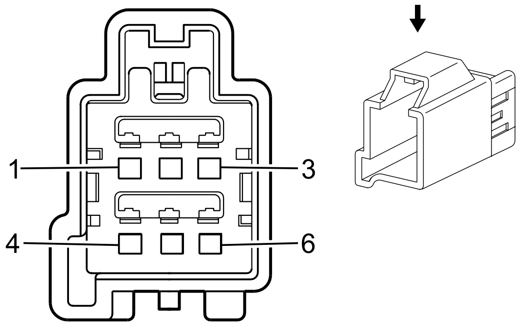
X800 Right Rear Door Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	RD/WH	1340	I	-	Battery Positive Voltage	1	2.5	RD/WH	1340	V	-
2	2.5	BK	1250	I	-	Ground	2	2.5	BK	1250	X	-
3	0.35	WH/YE	7557	IV	-	LED Ambient Lighting Control 1	3	0.35	WH/YE	7557	XII	-
4-6	-	-	-	-	-	Not Occupied	4-6	-	-	-	-	-

4-6	-	-	-	-	-	Not Occupied	4-6	-	-	-	-	-
7	1	WH	46	II	-	Right Rear Speaker (+)	7	1 0.5 0.75	WH WH WH	46 46 46	VII	-
8	0.35	YE/GY	6158	IV	-	Right Rear Door Handle Switch Signal	8	0.35	YE/GY	6158	XII	-
9	0.75	WH/D-BU	3266	II	-	Child Security Lock Motor Unlock Control	9	0.75	WH/D-BU	3266	VI	-
10	0.75	BN/YE	294	II	-	Door Lock Actuator Unlock Control	10	0.75	BN/YE	294	VI	-
11	0.75	GY	295	II	-	Door Lock Actuator Lock Control	11	0.75	GY	295	VI	-
12	-	-	-	-	-	Not Occupied	12	-	-	-	-	-
13	0.75	BN	5910	II	-	Door Double Lock Actuator Lock Control	13	0.75	BN	5910	VI	-
14	0.5	GY/L-GN	5996	III	-	Driver Outside Rear View Mirror Puddle Lamp Supply Voltage	14	0.5	GY/L-GN	5996	XI	-
15	-	-	-	-	-	Not Occupied	15	-	-	-	-	-
16	1	D-BU/BK	115	II	-	Right Rear Speaker Signal (-)	16	1 0.5 0.75	D-BU/BK D-BU/BK D-BU/BK	115 115 115	VII	-
17							17	0.35	OG/VT	6624	IX	-
18							18	0.35	BK/OG	6625	IX	-
19	0.35	GY/BK	3268	IV	-	Child Security Lock Motor Status Signal Right Rear	19	0.35	GY/BK	3268	IX	-
20	0.5	L-GN/GY	6135	III	-	Linear Interconnect Network Bus 4	20	0.5	L-GN/GY	6135	VIII	-

X805 Right Rear Door Harness to Right Rear Door Trim Harness (Z75)





Connector Part Information

Harness Type: Right Rear Door

OEM Connector: 10846805

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 1.5 Kaizen Series (L-GY)

Connector Part Information

Harness Type: Right Rear Door Trim

OEM Connector: 10846804

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way M 1.5 Series (L-GY)

Harness Type: Right Rear Door

OEM Connector: 10846804

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way M 1.5 Series (L-GY)

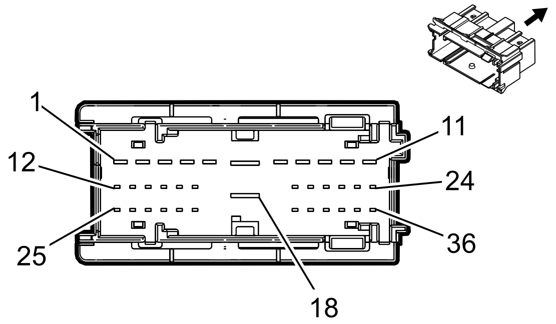
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	13575708	J-35616-2A (GY)	J-38125-11A	7116-4101-08	9	E	A

X805 Right Rear Door Harness to Right Rear Door Trim Harness (Z75)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	-	-	-	-	-	Not Occupied	1	-	-	-	-	-
2	0.35	WH/YE	7557	I	-	LED Ambient Lighting Control 1	2	0.35	WH/YE	7557	I	-
3	0.75	D-BU/BK	115	II	-	Right Rear Speaker Signal (-)	3	0.75	D-BU/BK	115	I	-
4	-	-	-	-	-	Not Occupied	4	-	-	-	-	-
5	0.35 0.5	BK BK	1250 1250	I	-	Ground Ground	5	0.35	BK	1250	I	-
6	0.75	WH	46	II	-	Right Rear Speaker (+)	6	0.75	WH	46	I	-

X900 Liftgate Harness to Body Harness



Connector Part Information

Harness Type: Body

OEM Connector: 13933751

Service Connector: Not Available

Description: 36-Way M 1.5, 2.8, 6.3 Series, Sealed

Connector Part Information

Harness Type: Liftgate

OEM Connector: 13925019

Service Connector: Service by Harness - See Part Catalog

Description:

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578908	J-35616-5 (PU)	J-38125-11A	7114-4112-02	9	C	D
II	13575821	J-35616-5 (PU)	J-38125-11A	7114-4110-02	9	E	C
III	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
IV	13578908	J-35616-5 (PU)	J-38125-11A	7114-4112-02	9	Not Available	Not Available
V	13575823	J-35616-5 (PU)	J-38125-11A	7114-4111-02	9	Not Available	Not Available
VI	13575824	J-35616-5 (PU)	J-38125-11A	7114-4112-02	9	C	D
VII	13575832	J-35616-35 (VT)	J-38125-11A	7116-4112-02	9	C	D
VIII	13580025	J-35616-35 (VT)	J-38125-11A	7116-4111-02	9	E	A
IX	13587517	J-35616-42 (RD)	J-38125-11A	7116-4121-02	10	Not Available	Not Available
X	13575286	J-35616-35 (VT)	J-38125-11A	7116-4111-02	9	C	A

X900 Liftgate Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1							1	3 2.5	RD/GY RD/GY	7040 7040	I	-
2-3	-	-	-	-	-	Not Occupied	2-3	-	-	-	-	-
4							4	4 3	BK BK	1450 1450	IV	-
5	-	-	-	-	-	Not Occupied	5	-	-	-	-	-
6							6	2.5	BN/VT	293	III	-

6							6	2.5	BN/VT	293	III	-
7	-	-	-	-	-	Not Occupied	7	-	-	-	-	-
8							8	0.75	RD/YE	3040	V	-
9	-	-	-	-	-	Not Occupied	9	-	-	-	-	-
10							10	0.5	L-GN/YE	6846	II	-
11							11	3 2.5	BK BK	1450 1450	I	-
12	-	-	-	-	-	Not Occupied	12	-	-	-	-	-
13							13	0.5	L-GN	5060	III	-
14							14	0.35	GY/BK	6113	III	-
15							15	0.35	L-GN	6112	III	-
16-17	-	-	-	-	-	Not Occupied	16-17	-	-	-	-	-
18							18	2.5	BK	1450	III	-
19							19	0.5	D-BU/WH	6128	III	-
20							20	0.35 0.5 0.75	BK/WH BK BK	2551 2550 2550	III	-
21	-	-	-	-	-	Not Occupied	21	-	-	-	-	-
22							22	0.5	RD/D-BU	840	III	-
23	-	-	-	-	-	Not Occupied	23	-	-	-	-	-
24							24	0.35	YE/D-BU	5797	III	-
25							25	0.5	D-BU/YE	6795	III	-
26							26	0.35	GY/L-GN	6190	III	-
27							27	0.5	L-GN/BN	4118	III	-
28							28	0.35	VT/GY	1303	III	-
29							29	0.5	YE/D-BU	5797	III	-
30							30	0.5	L-GN/GY	6135	III	-
31	-	-	-	-	-	Not Occupied	31	-	-	-	-	-
32							32	0.35 0.5	WH/BN VT/L-GN	6201 1739	III	-
33							33	0.35 0.35 0.35	D-BU WH/D-BU WH	7642 6973 7642	III	-
34							34	0.35	WH	7641	III	-

34							34	0.35 0.35 0.35	WH GY/YE D-BU	7641 6972 7641	III	-
35							35	0.35 0.35 0.35	Bare Bare D-BU	6799 6974 6974	III	-
36							36	0.35	L-GN/WH	24	III	-

Description and Operation

Electronic Park Lock Description and Operation

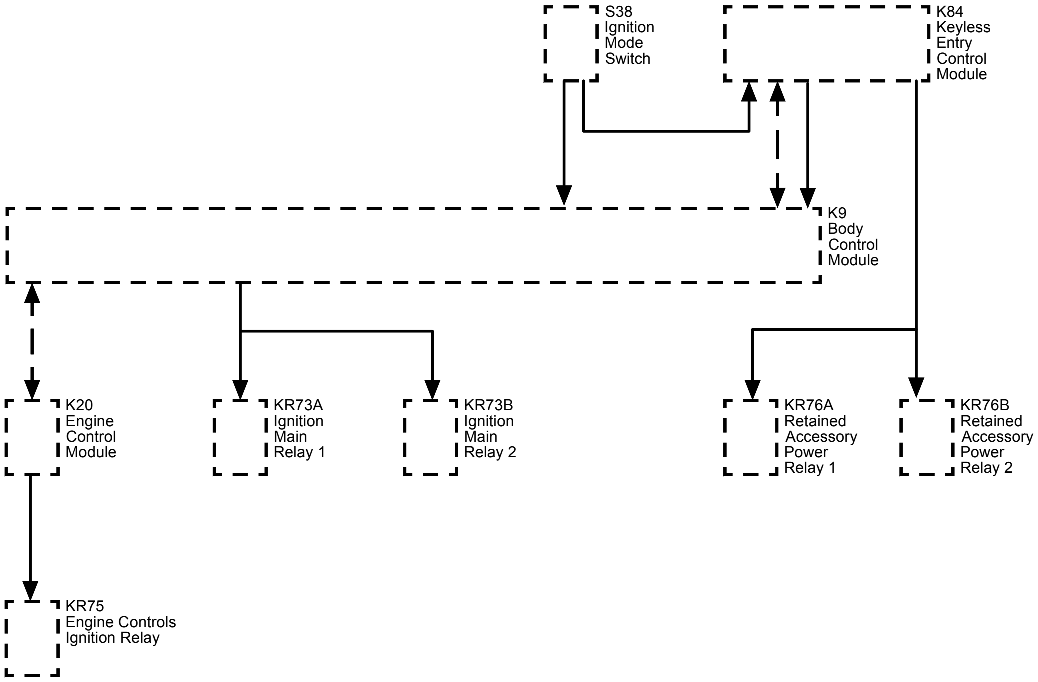
If the vehicle is equipped with automatic transmission and an ignition mode switch, it has an electronic park lock system. The electronic park lock system purpose is to prevent the ignition from being switched to the OFF position when the transmission is in any position other than PARK and the vehicle may still be moving. The electronic park lock system incorporates the park position switch that located in the A/T shift lock control switch. When the transmission shift selector is in PARK, the park position switch closes and the BCM allows the ignition to be turned OFF.

If the vehicle is not in PARK, the ignition will return to ACC/ACCESSORY and display the message SHIFT TO PARK in the Driver Information Center. When the vehicle is shifted into PARK, the ignition system will switch to OFF.

Power Mode Description and Operation (With BTM)

Serial Data Power Mode Master

Power Moding D&O Block Diagram



Power to many of this vehicles circuits is controlled by the module that is designated the power mode master. This vehicles power mode master is the body control module (BCM). The BCM has multiple B+ circuits that feed into it. Each of those circuits are partitioned within the controller to drive certain outputs of the vehicle's body functions. An open or short in any one of the B+ circuits may induce multiple codes/or a section of non-functionality within the BCM with the rest of the BCM functioning normally. In this case it is useful to refer to the power distribution schematics to determine if the non-functional partition of the controller shares a common B+ circuit. The ignition mode switch is a low current switch with a discrete ignition signal to the power mode master for determination of the power mode that will be sent over the serial data circuits to the other modules that need this information. The power mode master will also activate relays and other direct outputs of the power mode master as needed. The power mode master determines which power mode (Off, Accessory, Run, Crank Request) is required, and reports this information to other modules via serial data. Modules which have switched voltage inputs may operate in a default mode if the power mode serial data message does not match what the individual module can see from its own connections.

The keyless entry control module also monitors voltage on the switch in the same manner as the BCM, but monitors the second switch located in the ignition mode switch. The keyless entry control module also controls the backup power through the run/crank coil control circuit by applying voltage to the ignition voltage circuit. This circuit is a pass-thru in the BCM and will energize the ignition circuit when the appropriate power mode is required.

The power mode master receives ignition switch or ignition mode switch signals to identify the operators desired power mode. The Power Mode Parameter tables below illustrate the correct state of these input parameters (circuits) in correspondence to the ignition switch position or ignition mode switch with the transmitter to vehicle range:

Power Mode Parameters

Power Mode	Power Mode Transmitted	Push Button Ignition Switch (Power Button Switch Circuit Input to the BCM)	Push Button Ignition Switch Voltage Push Button Ignition Switch Voltage Input to the BCM	Key in Cylinder Switch/Key Fob in Vehicle (Transmitter in Range to the BCM Signal)
Transmitter in Range	Off	Inactive	9 V	Yes

Transmitter out of Range	Off	Inactive	9 V	No
Vehicle On Power Mode, then Press the Power Button Switch (Foot on or off the Brake Pedal) Transmitter in Vehicle	Off	Active (pushed) / Inactive (not pushed)	5-6 V (pressed)	Yes
Vehicle Off Power Mode, then Press the Power Button Switch with foot off the Brake Pedal; Transmitter in Vehicle	Accessory Mode	Active (pushed) / Inactive (not pushed)	5-6 V (pressed)	Yes
Vehicle Off Power Mode, then Press the Power Button Switch with foot on the Brake Pedal; Transmitter in Vehicle	Vehicle in Run/Start Mode	Active (pushed) / Inactive (not pushed)	5-6 V (pressed)	Yes
Vehicle Off Power Mode, then Press and Hold the Power Button Switch up to 10 s with foot off the Brake Pedal; Transmitter in Vehicle	Vehicle in Run/Start Mode	Active (pushed) / Inactive (not pushed)	5-6 V (pressed)	Yes

Relay Controlled Power Mode

The BCM and keyless entry control module use discrete push button switch inputs, transmitter in range status, current power mode state, transmission shift lever position, and brake pedal position state to distinguish the correct power mode (Off, Accessory Mode, Vehicle in Run/Start Mode). The BCM and keyless entry control module, after determining the desired power mode, will activate the appropriate relays for that power mode.

The retained accessory power relay remains on for a timed period after the Ignition is turned OFF. Refer to Retained Accessory Power Description and Operation (With BTM)Retained Accessory Power Description and Operation (Without BTM) for more information on the retained accessory power function.

Push Button Start

The ignition mode switch has 2 LEDs that indicate the vehicle power mode. When the vehicle is in the off mode, both LED’s will be off. Pressing the ignition mode switch button once (without the brake pedal applied), the vehicle enters the accessory mode and the amber LED (ACC) will illuminate. The accessory mode has a 5 min time out to reduce battery drain. With the ignition off (without the brake pedal applied) and pressing and holding the push button start switch for up to 10s will place the vehicle in run/start mode (without the vehicle running) and the green LED (Run/Start) will illuminate. With the ignition off (with the brake pedal applied), pressing the ignition mode switch button once, the vehicle will enter run/start mode and the green LED (run/start) will illuminate. This will start the engine. Both LED’s have the voltage supplied from the body control module (BCM). The ignition mode switch sends the ignition mode switch status to the passive entry passive start module (PEPS) and to the BCM. The PEPS module sends a redundant signal to the BCM with the ignition mode switch status.

Battery Saver Mode (Transport Mode)

Battery saver mode (transport mode) reduces the parasitic load of some modules during overseas shipment or during vehicle storage conditions. This improves the drain time on the battery (up to 70 days without the battery going dead). When a vehicle is in transport/storage, some features may have reduced functionality while in the battery saver mode, such as disabling keyless entry, afterblow, and content theft features. Battery saver mode is initiated by turning on the hazard flashers, applying the brake pedal, and then turning the ignition key to the start position or pushing the ignition mode switch with the foot on the brake for greater than 15s. The mode is disengaged by repeating the previous process. The driver information center (if equipped) will display Transport Mode is On when battery saver mode is enabled and Transport Mode is Off when battery saver mode is disabled. For vehicles not equipped with a driver information center, the battery indicator light will constantly flash on the Instrument Cluster when battery saver mode is enabled. This feature can be used as many times as necessary if the vehicle is to be stored for an extended period of time.

BCM Awake/Sleep States

The BCM is able to control or perform all of the BCM functions in the awake state. The BCM enters the sleep state when active control or normal monitoring of system functions has stopped and a time limit has passed. The BCM must detect certain wake-up inputs before entering the awake state. The BCM monitors for these inputs during the sleep state.

The BCM will enter the awake state if any of the following wake-up inputs are detected:

- Activity on the serial data line
- Detection of a battery reconnect
- Any door open signal
- Headlamps ON
- Key-in-ignition
- Ignition ON
- Park lamps ON
- Keyless entry or remote start message

The BCM will enter a sleep state when all of the following conditions exist:

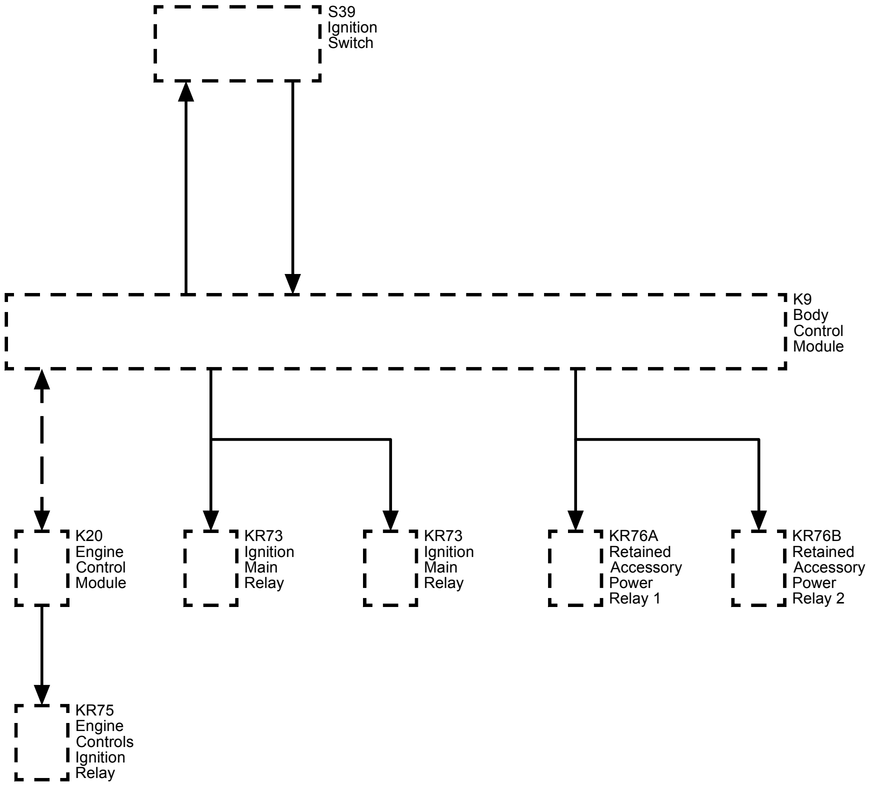
- The ignition switch is OFF, key out.
- Ignition OFF, transmitter is out of range
- No activity exists on the serial data line.
- No outputs are commanded.
- No delay timers are actively counting.
- No wake-up inputs are present.

If all these conditions are met, the BCM will enter a low power or sleep condition.

Power Mode Description and Operation (Without BTM)

Serial Data Power Mode Master

Power Moding Description and Operation Block Diagram



Power to many of this vehicles circuits is controlled by the module that is designated the power mode master. This vehicles power mode master is the body control module (BCM). The BCM has multiple B+ circuits that feed into it. Each of those circuits are partitioned within the controller to drive certain outputs of the vehicle’s body functions. An open or short in any one of the B+ circuits may induce multiple codes/or a section of non-functionality within the BCM with the rest of the BCM functioning normally. In this case it is useful to refer to the power distribution schematics to determine if the non-functional partition of the controller shares a common B+ circuit. The ignition switch is a low current switch with multiple discrete ignition switch signals to the power mode master for determination of the power mode that will be sent over the serial data circuits to the other modules that need this information. The power mode master will also activate relays and other direct outputs of the power mode master as needed. The power mode master determines which power mode (Off, Accessory, Run, Crank Request) is required, and reports this information to other modules via serial data. Modules which have switched voltage inputs may operate in a default mode if the power mode serial data message does not match what the individual module can see from its own connections.

The power mode master receives ignition switch signals to identify the operators desired power mode. The Power Mode Parameter tables below illustrate the correct state of these input parameters (circuits) in correspondence to the ignition switch position:

Power Mode Parameters

Ignition Switch Position	Power Mode Transmitted	Ign. Off/Run/Crank (Off/Run Crank Voltage Circuit)	Ignition Accessory/Run (Accessory Voltage Circuit)	Ignition Run/Crank (Ignition 1 Voltage Circuit)
Off Key Out	Off	Key Out / ACC	Inactive	Inactive
Off Key IN	Off	Key In / Off	Inactive	Inactive
Accessory	Accessory	Key Out / ACC	Active	Inactive

Run	Run	Run	Active	Active
Start	Crank Request	Crank	Inactive	Active

Relay Controlled Power Mode

The BCM uses the discrete ignition switch inputs Off/Run/Crank Voltage, Accessory Voltage, and Ignition 1 Voltage, to distinguish the correct power mode. The BCM, after determining the desired power mode, will activate the appropriate relays for that power mode.

The retained accessory power relay 1 and retained accessory power relay 2 remain on for a timed period after the Ignition key is removed. Refer to Retained Accessory Power Description and Operation (With BTM)Retained Accessory Power Description and Operation (Without BTM) for more information on the retained accessory power function.

Battery Saver Mode (Transport Mode)

Battery saver mode (transport mode) reduces the parasitic load of some modules during overseas shipment or during vehicle storage conditions. This improves the drain time on the battery (up to 70 days without the battery going dead). When a vehicle is in transport/storage, some features may have reduced functionality while in the battery saver mode, such as disabling keyless entry, afterblow, and content theft features. Battery saver mode is initiated by turning on the hazard flashers, applying the brake pedal, and then turning the ignition key to the start position or pushing the ignition mode switch with the foot on the brake for greater than 15 seconds. The mode is disengaged by repeating the previous process. The driver information center (if equipped) will display Transport Mode is On when battery saver mode is enabled and Transport Mode is Off when battery saver mode is disabled. For vehicles not equipped with a driver information center, the battery indicator light will constantly flash on the Instrument Cluster when battery saver mode is enabled. This feature can be used as many times as necessary if the vehicle is to be stored for an extended period of time.

BCM Awake/Sleep States

The BCM is able to control or perform all of the BCM functions in the awake state. The BCM enters the sleep state when active control or normal monitoring of system functions has stopped and a time limit has passed. The BCM must detect certain wake-up inputs before entering the awake state. The BCM monitors for these inputs during the sleep state.

The BCM will enter the awake state if any of the following wake-up inputs are detected:

- Activity on the serial data line
- Detection of a battery reconnect
- Any door open signal
- Headlamps ON
- Key-in-ignition
- Ignition ON
- Park lamps ON
- Keyless entry or remote start message

The BCM will enter a sleep state when all of the following conditions exist:

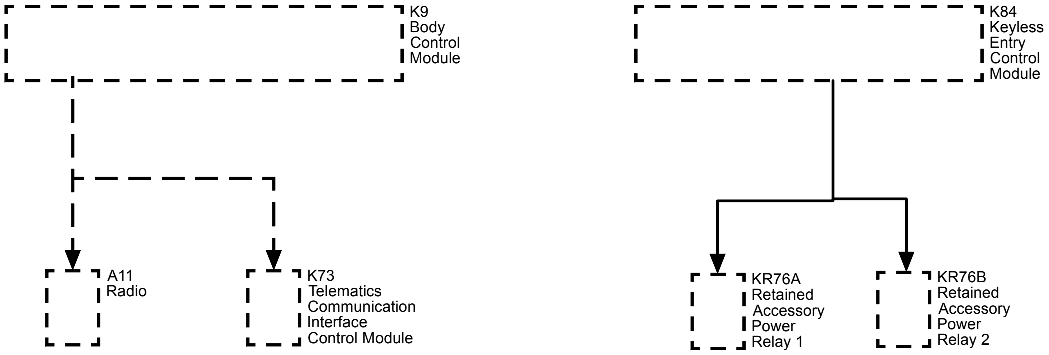
- The ignition switch is OFF, key out.
- Ignition OFF, transmitter is out of range
- No activity exists on the serial data line.
- No outputs are commanded.
- No delay timers are actively counting.
- No wake-up inputs are present.

If all these conditions are met, the BCM will enter a low power or sleep condition.

Retained Accessory Power Description and Operation (With BTM)

Retained Accessory Power

RAP D&O with BTM Block Diagram



The body control module (BCM) monitors the ignition position, battery condition, and each door ajar/open switch status to determine whether the retained accessory power should be initiated or terminated. Retained accessory power is controlled by two different methods; retained accessory power relay coil control circuit and serial data. Some modules receive a retained accessory power message from the BCM over the serial data circuits. Serial data controlled retained accessory power is deactivated as required by their modules retained accessory power mode operation. Other subsystems may be activated directly by the BCM or by the BCM through a relay. Components and systems that are active in retained accessory power are also activated anytime the ignition is any position other than OFF regardless of the door switch signals.

Retained Accessory Power Relay Coil Control Circuit.

The BCM keeps the device or relay energized during all power modes, except Off-Awake and Crank. The device or relay is also energized for approximately 10 min after shutting the ignition OFF and removing the key, providing no door is opened.

Relay controlled retained accessory power will end when one of the following conditions is met:

- The BCM receives an input from any door ajar or open switch indicating the opening of any door after the ignition key is out of the ignition.

  Note: If the BCM is receiving any door ajar or open signal from those switches when the ignition key is turned OFF, retained accessory power will not initiate.

- The BCM internal timer for the retained accessory power expires after approximately 10 min.
- The BCM detects a decrease in battery capacity below a prescribed limit.

Systems powered by the retained accessory power relay coil control circuit during the retained accessory power mode are as follows:

Note: The vehicle may not be equipped with all components as listed below.

- Accessory Power Receptacle
- Cigarette Lighter Receptacle

- Window Switches
- Sunroof Control Module
- Sunroof Switch
- Mobile Device Wireless Charger Module
- Mobile Telephone Control Module
- Traffic Data Receiver
- Transmission Shift Lever Position Indicator (w/floor mounted console gear shift)
- Seat Heating Control Module

Serial Data Controlled Retained Accessory Power

Retained accessory power systems controlled by serial data are as follows:

Radio

Radio retained accessory power activation/termination is the same as relay operation with one exception; the only door switch that will turn off the radio during retained accessory power is the driver door open switch.

Vehicle Communication Interface Module (VCIM) (Onstar®) (If Equipped)

VCIM RAP activation/termination is the same as radio operation with 1 exception; if there is an active call when the ignition key is turned off the VCIM will remain in RAP mode, and keep the radio in RAP mode until the call is terminated.

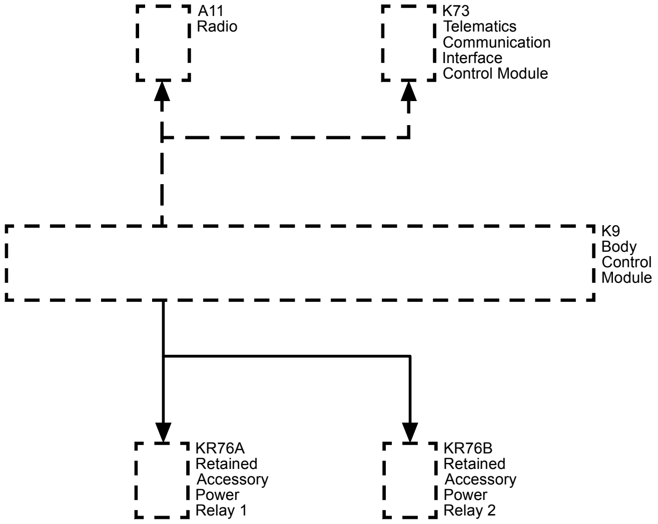
Interruptible Retained Accessory Power (With BTM)

The keyless entry control module controls components in the same manner as BCM relay controlled retained accessory power with one exception; interruptible retained accessory power is deactivated during transmitter authentication. The keyless entry control module will deactivate components that may cause radio frequency (RF) interference when the ignition mode switch is pressed or which may result in “NO REMOTE DETECTED” message displayed on the driver information center.

Retained Accessory Power Description and Operation (Without BTM)

Retained Accessory Power

RAP Description and Operation Block Diagram



The body control module (BCM) monitors the ignition switch position, battery condition, and each door ajar/open switch status to determine whether the retained accessory power should be initiated or terminated. Retained accessory power is controlled by two different methods; relay control and serial data. Some modules receive a retained accessory power message from the BCM over the serial data circuits. Serial data controlled retained accessory power is deactivated as required by their modules retained accessory power mode operation. Other subsystems are activated directly by the BCM through a relay. Components and systems that are active in retained accessory power are also activated anytime the ignition is any position other than OFF regardless of the door switch signals.

Relay Controlled Retained Accessory Power

The BCM keeps the retained accessory power relay 1 and retained accessory power relay 2 energized during all power modes, except Off-Awake and Crank. The retained accessory power relay 1 and retained accessory power relay 2 are also energized for approximately 10 minutes after shutting the ignition OFF and removing the key, providing no door is opened.

Relay controlled retained accessory power will end when one of the following conditions is met:

- The BCM receives an input from any door ajar or open switch indicating the opening of any door after the ignition key is out of the ignition.

  Note: If the BCM is receiving any door ajar or open signal from those switches when the ignition key is turned OFF, retained accessory power will not initiate.

- The BCM internal timer for the retained accessory power expires after approximately 10 minutes.
- The BCM detects a decrease in battery capacity below a prescribed limit.

Systems powered by the retained accessory power relay 1 and retained accessory power relay 2 during the retained accessory power mode are as follows:

Note: The vehicle may not be equipped with all components as listed below.

- Accessory Power Receptacle
- Cigarette Lighter Receptacle
- Sunroof Control Module
- Sunroof Switch
- Sliding Rear Window Switch
- Mobile Device Wireless Charger Module

Serial Data Controlled Retained Accessory Power

Retained accessory power systems controlled by serial data are as follows:

Radio

Radio retained accessory power activation / termination is the same as relay operation with one exception; the only door switch that will turn off the radio during retained accessory power is the driver door open switch.

Vehicle Communication Interface Module (VCIM) (Onstar®) (If Equipped)

VCIM RAP activation/termination is the same as radio operation with 1 exception; if there is an active call when the ignition key is turned off the VCIM will remain in RAP mode, and keep the radio in RAP mode until the call is terminated.

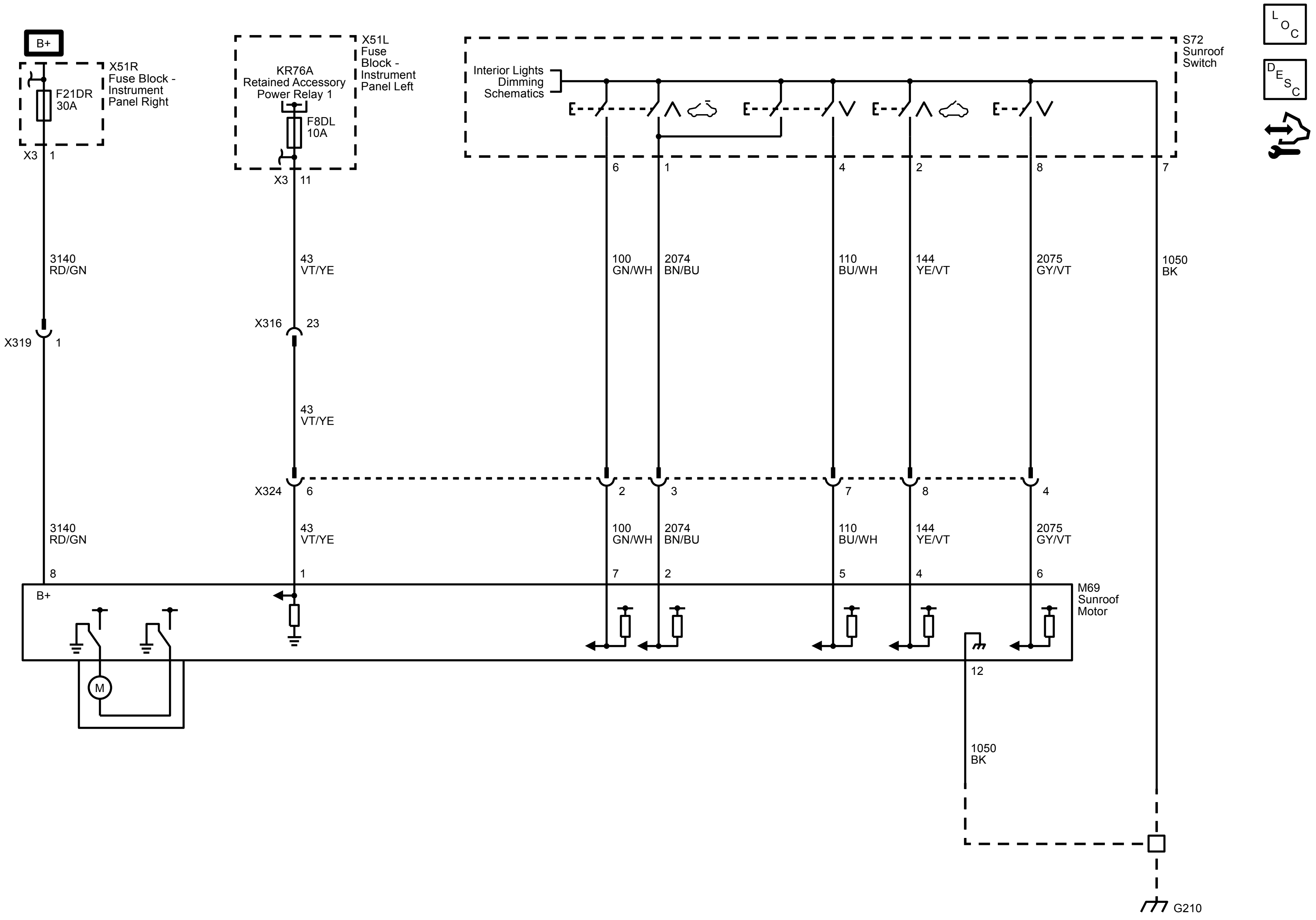
Roof

Sunroof

Schematic and Routing Diagrams

Sunroof Schematics

Sunroof (CF5)


B+
X51R
Fuse Block -
Instrument
Panel Right
F21DR
30A
X3 1
3140
RD/GN
X319 1
3140
RD/GN
8
KR76A
Retained Accessory
Power Relay 1
X51L
Fuse
Block -
Instrument
Panel Left
F8DL
10A
X3 11
43
VT/YE
X316 23
43
VT/YE
X324 6
43
VT/YE
1
Interior Lights
Dimming
Schematics
S72
Sunroof
Switch
6
1
4
2
8
7
100
GN/WH
2074
BN/BU
110
BU/WH
144
YE/VT
2075
GY/VT
1050
BK
2
3
7
8
4
100
GN/WH
2074
BN/BU
110
BU/WH
144
YE/VT
2075
GY/VT
7
2
5
4
6
M69
Sunroof
Motor
B+
M
12
1050
BK
G210
LOC
DESC

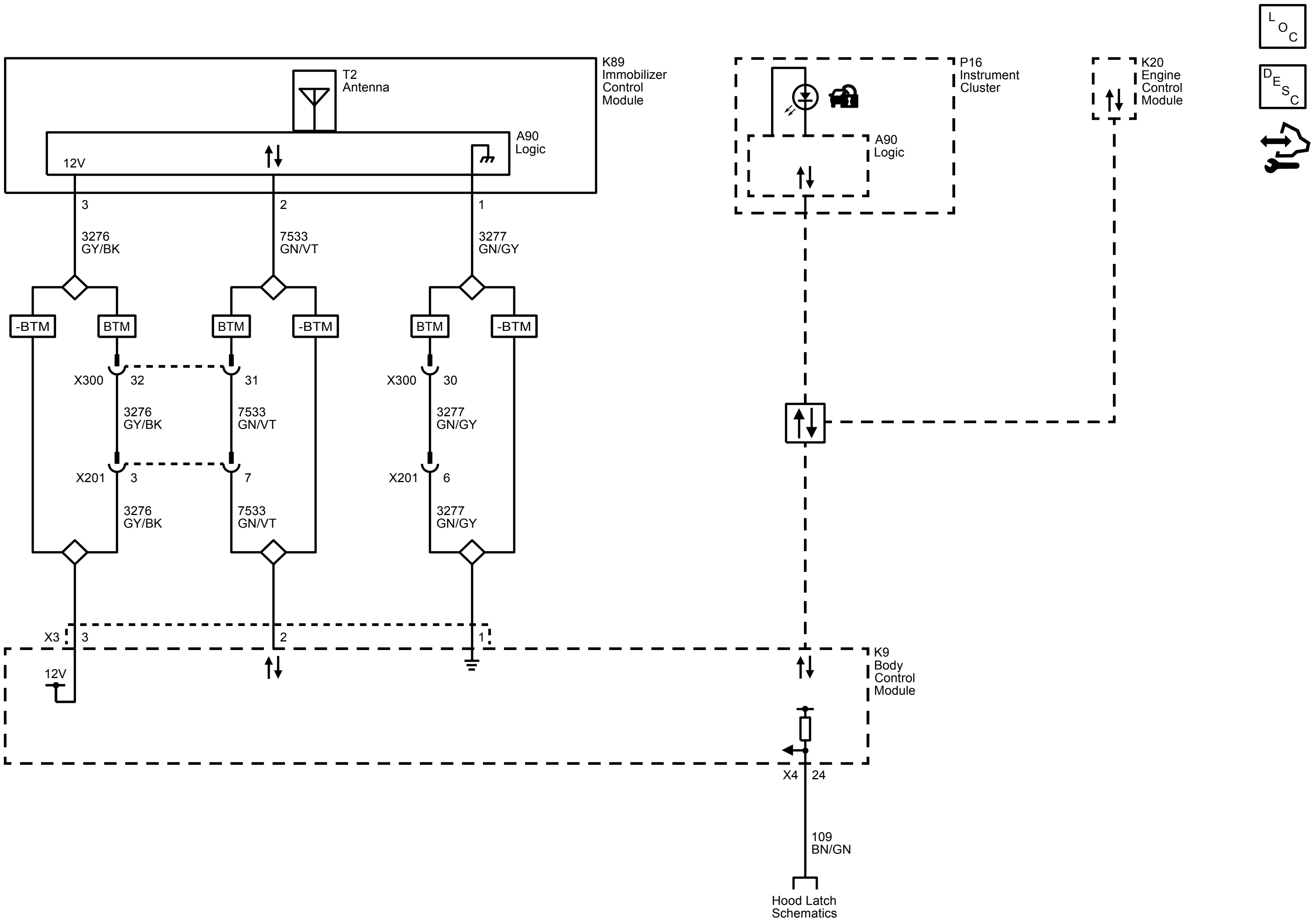
Safety and Security

Immobilizer

Schematic and Routing Diagrams

Immobilizer Schematics

Immobilizer

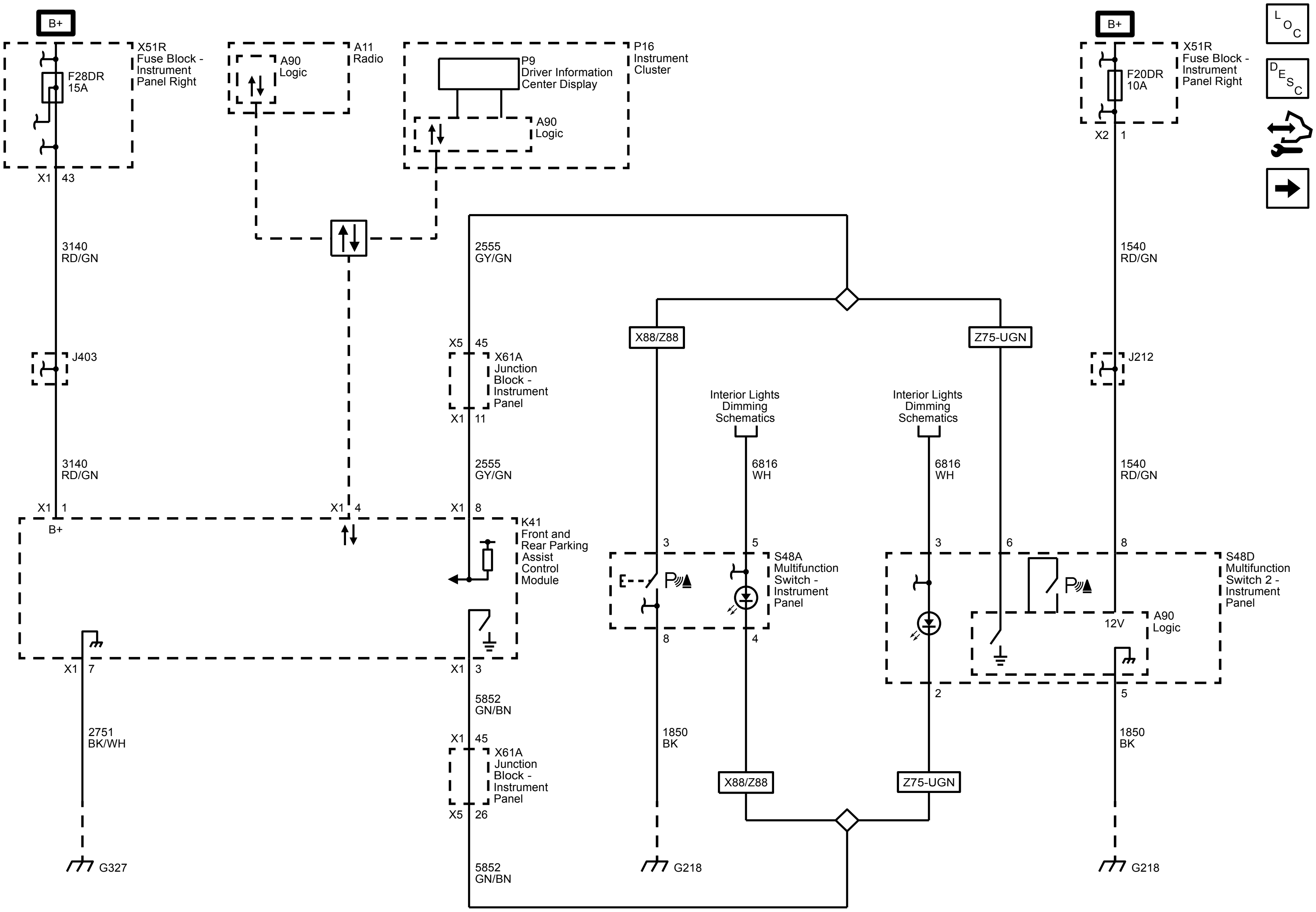

K89
Immobilizer
Control
Module
T2
Antenna
A90
Logic
12V
3
2
1
3276
GY/BK
7533
GN/VT
3277
GN/GY
-BTM
BTM
BTM
-BTM
BTM
-BTM
X300
32
31
30
X201
3
7
6
X3
3
2
1
12V
K9
Body
Control
Module
X4
24
109
BN/GN
Hood Latch
Schematics
P16
Instrument
Cluster
A90
Logic
K20
Engine
Control
Module
LOC
DESC

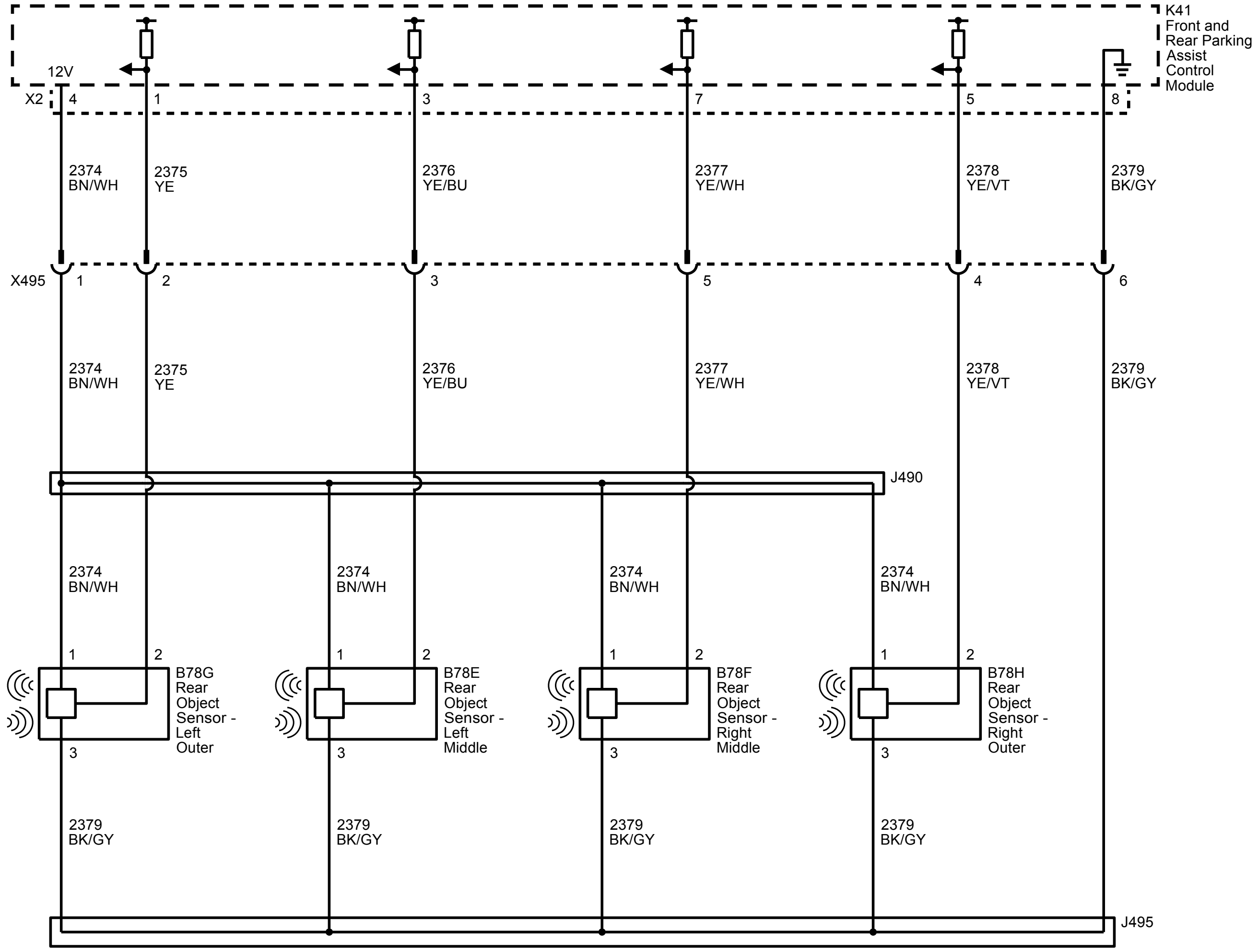
Object Detection and Pedestrian Protection

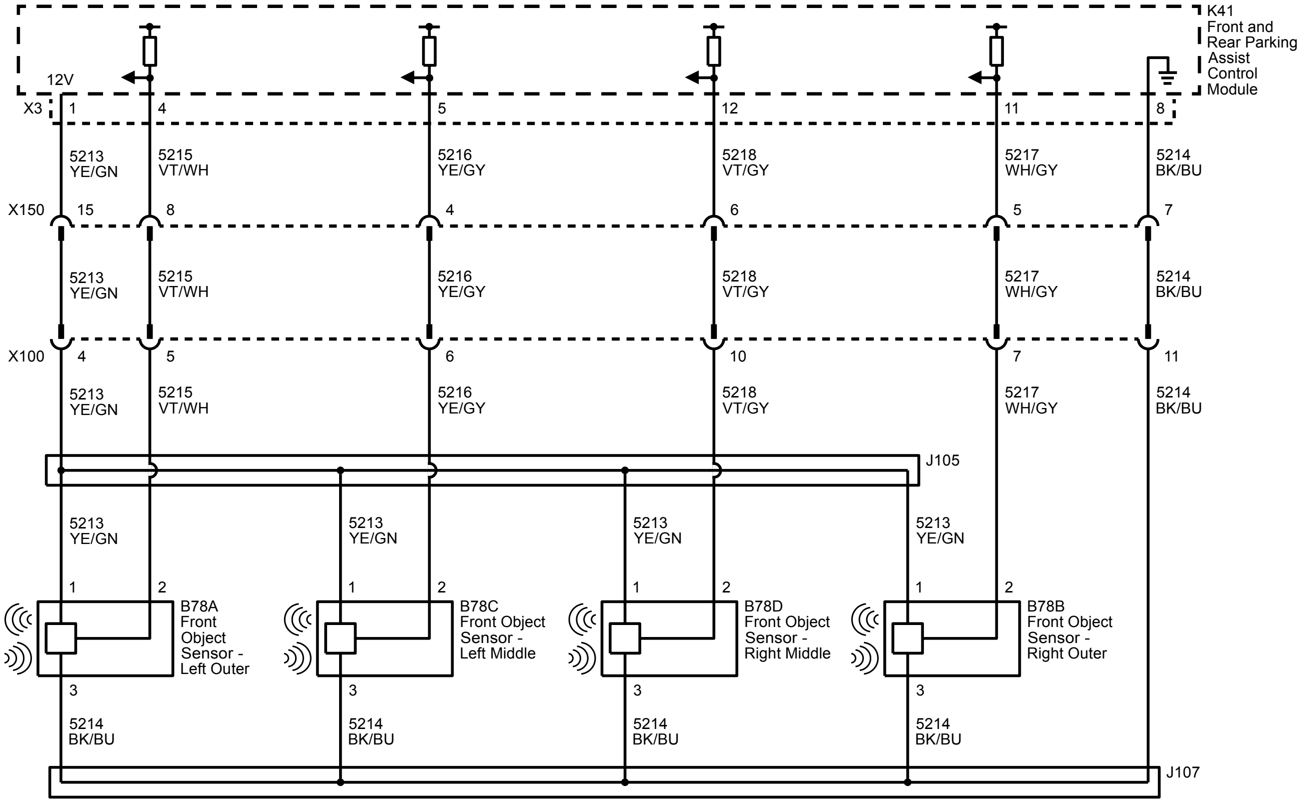
Schematic and Routing Diagrams

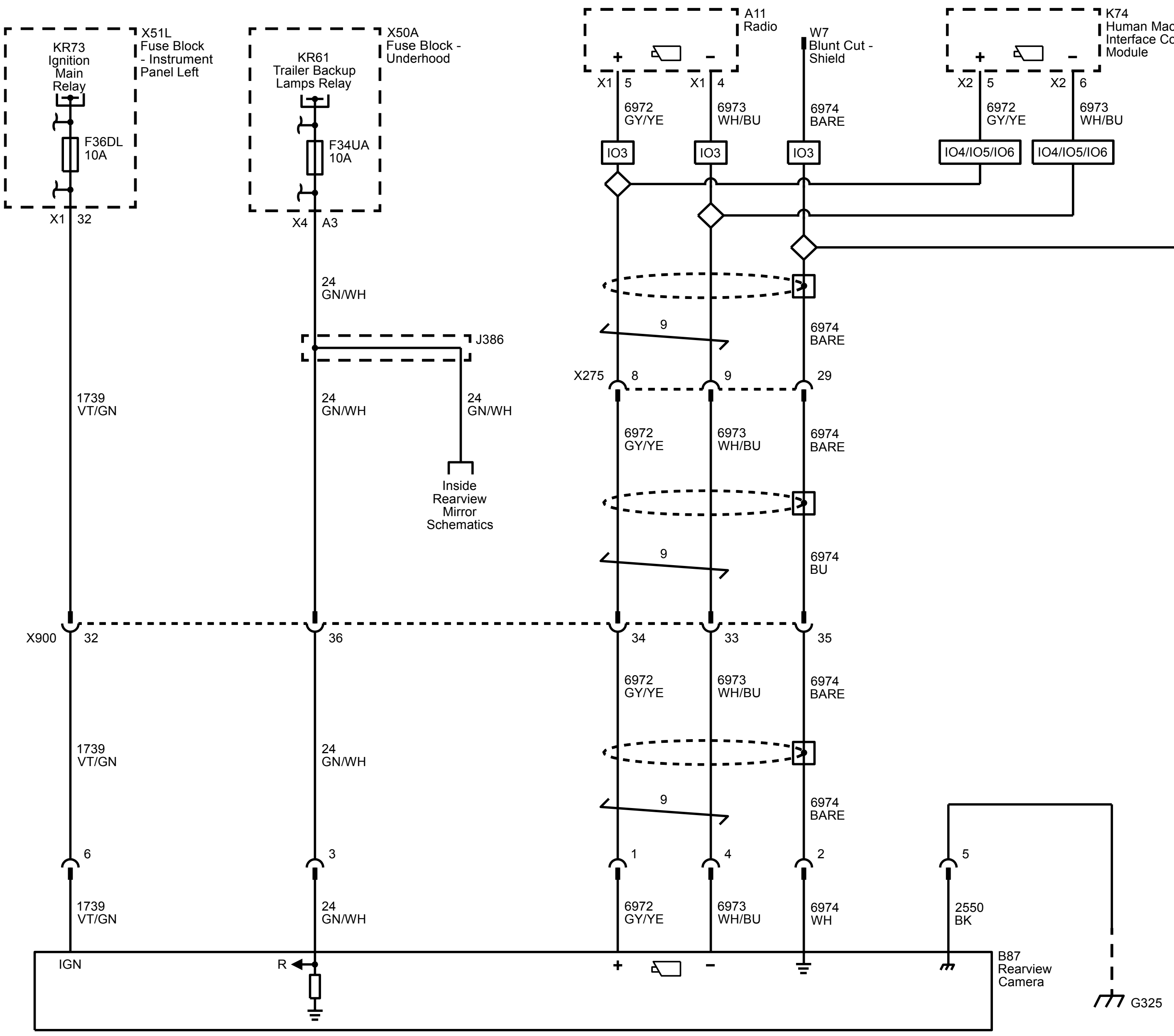
Object Detection Schematics

Park Assist - Power, Ground, and Serial Data (UD5 or UD7)

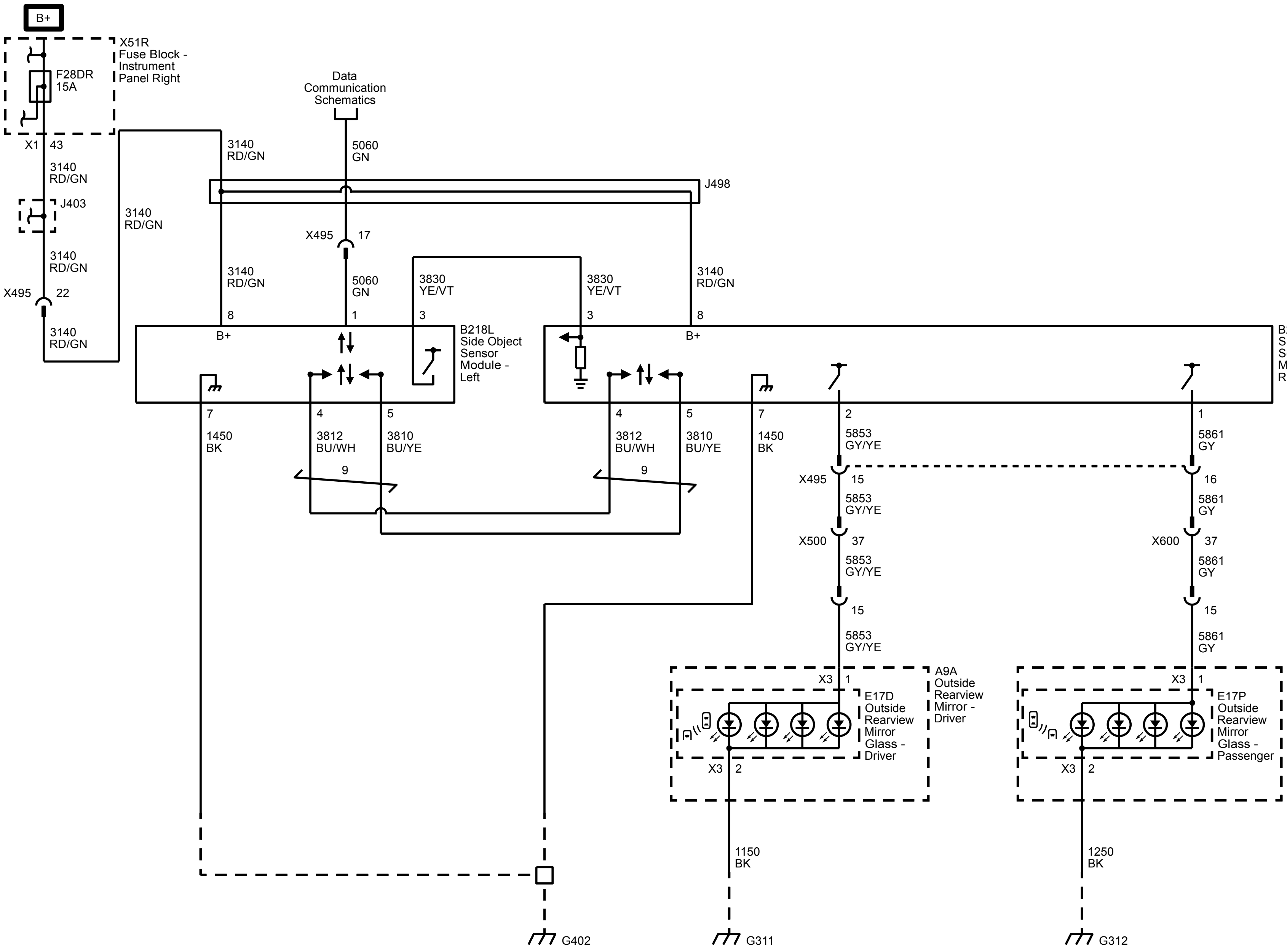

B+
X51R
Fuse Block -
Instrument
Panel Right
F28DR
15A
X1 43
3140
RD/GN
J403
3140
RD/GN
X1 1
B+
A90
Logic
A11
Radio
P9
Driver Information
Center Display
A90
Logic
P16
Instrument
Cluster
X1 4
2555
GY/GN
X5 45
X61A
Junction
Block -
Instrument
Panel
X1 11
2555
GY/GN
X1 8
K41
Front and
Rear Parking
Assist
Control
Module
X1 7
2751
BK/WH
G327
X1 3
5852
GN/BN
X1 45
X61A
Junction
Block -
Instrument
Panel
X5 26
5852
GN/BN
X88/Z88
Z75-UGN
Interior Lights
Dimming
Schematics
6816
WH
Interior Lights
Dimming
Schematics
6816
WH
3
5
S48A
Multifunction
Switch -
Instrument
Panel
8
4
1850
BK
G218
X88/Z88
Z75-UGN
3
6
8
S48D
Multifunction
Switch 2 -
Instrument
Panel
12V
A90
Logic
2
5
1850
BK
G218
B+
X51R
Fuse Block -
Instrument
Panel Right
F20DR
10A
X2 1
1540
RD/GN
J212
1540
RD/GN
LOC
DESC


K41
Front and Rear Parking Assist Control Module
12V
X2
4
1
3
7
5
8
2374 BN/WH
2375 YE
2376 YE/BU
2377 YE/WH
2378 YE/VT
2379 BK/GY
X495
1
2
3
5
4
6
2374 BN/WH
2375 YE
2376 YE/BU
2377 YE/WH
2378 YE/VT
2379 BK/GY
J490
2374 BN/WH
2374 BN/WH
2374 BN/WH
2374 BN/WH
1
2
B78G Rear Object Sensor - Left Outer
3
1
2
B78E Rear Object Sensor - Left Middle
3
1
2
B78F Rear Object Sensor - Right Middle
3
1
2
B78H Rear Object Sensor - Right Outer
3
2379 BK/GY
2379 BK/GY
2379 BK/GY
2379 BK/GY
J495

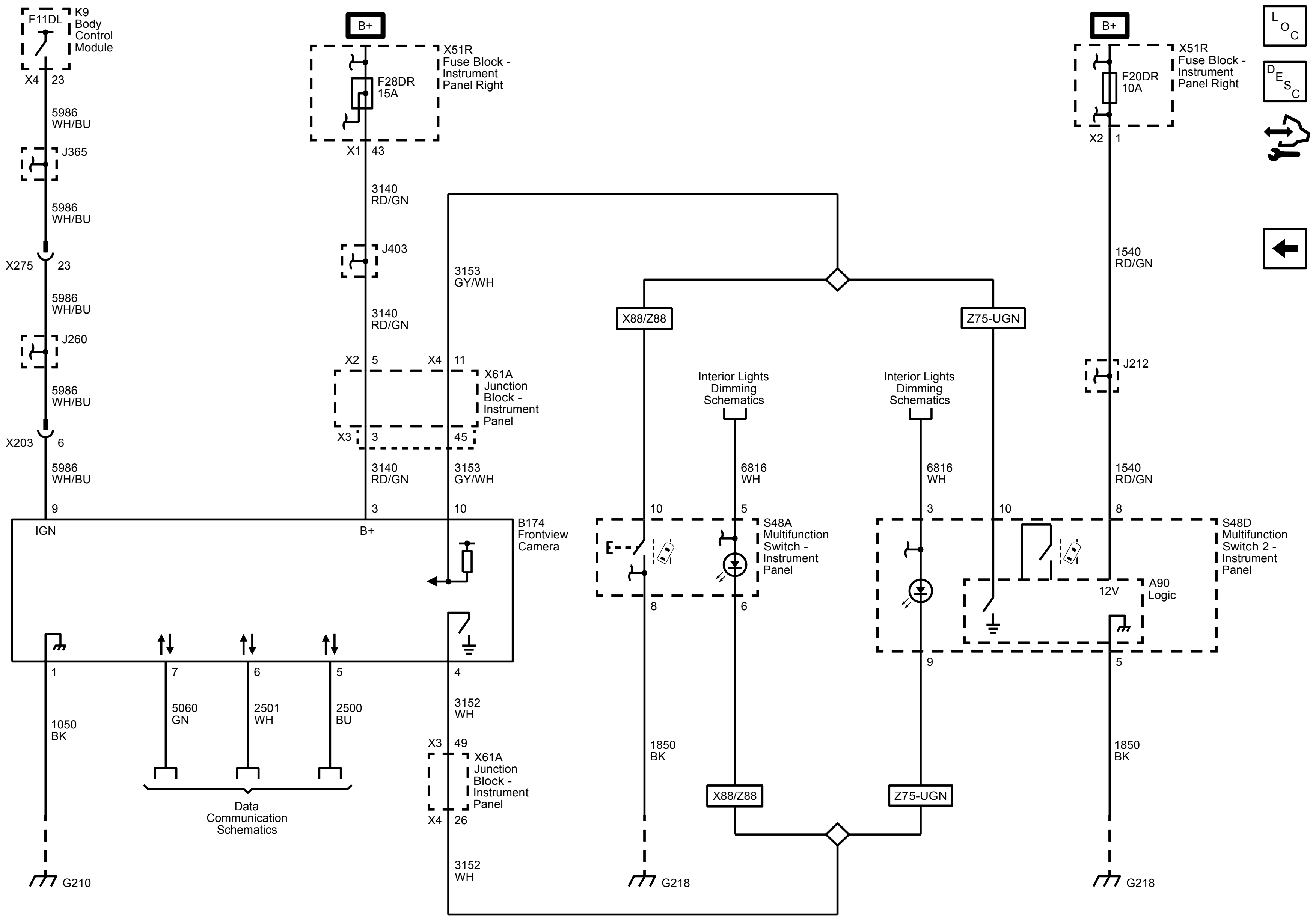

K41
Front and Rear Parking Assist Control Module
12V
X3
1
4
5
12
11
8
5213 YE/GN
5215 VT/WH
5216 YE/GY
5218 VT/GY
5217 WH/GY
5214 BK/BU
X150
15
8
4
6
5
7
X100
4
5
6
10
7
11
J105
J107
B78A
Front Object Sensor - Left Outer
B78C
Front Object Sensor - Left Middle
B78D
Front Object Sensor - Right Middle
B78B
Front Object Sensor - Right Outer
1
2
3


KR73 Ignition Main Relay
X51L Fuse Block - Instrument Panel Left
F36DL 10A
X1 32
KR61 Trailer Backup Lamps Relay
X50A Fuse Block - Underhood
F34UA 10A
X4 A3
A11 Radio
X1 5
X1 4
W7 Blunt Cut - Shield
K74 Human Machine Interface Control Module
X2 5
X2 6
W7 Blunt Cut - Shield
6972 GY/YE
6973 WH/BU
6974 BARE
IO3
IO3
IO3
IO4/IO5/IO6
IO4/IO5/IO6
IO4/IO5/IO6
24 GN/WH
J386
9
X275 8 9 29
1739 VT/GN
24 GN/WH
24 GN/WH
Inside Rearview Mirror Schematics
6974 BU
X900 32 36 34 33 35
6974 BARE
6 3 1 4 2 5
6974 WH
2550 BK
IGN
R
B87 Rearview Camera
G325

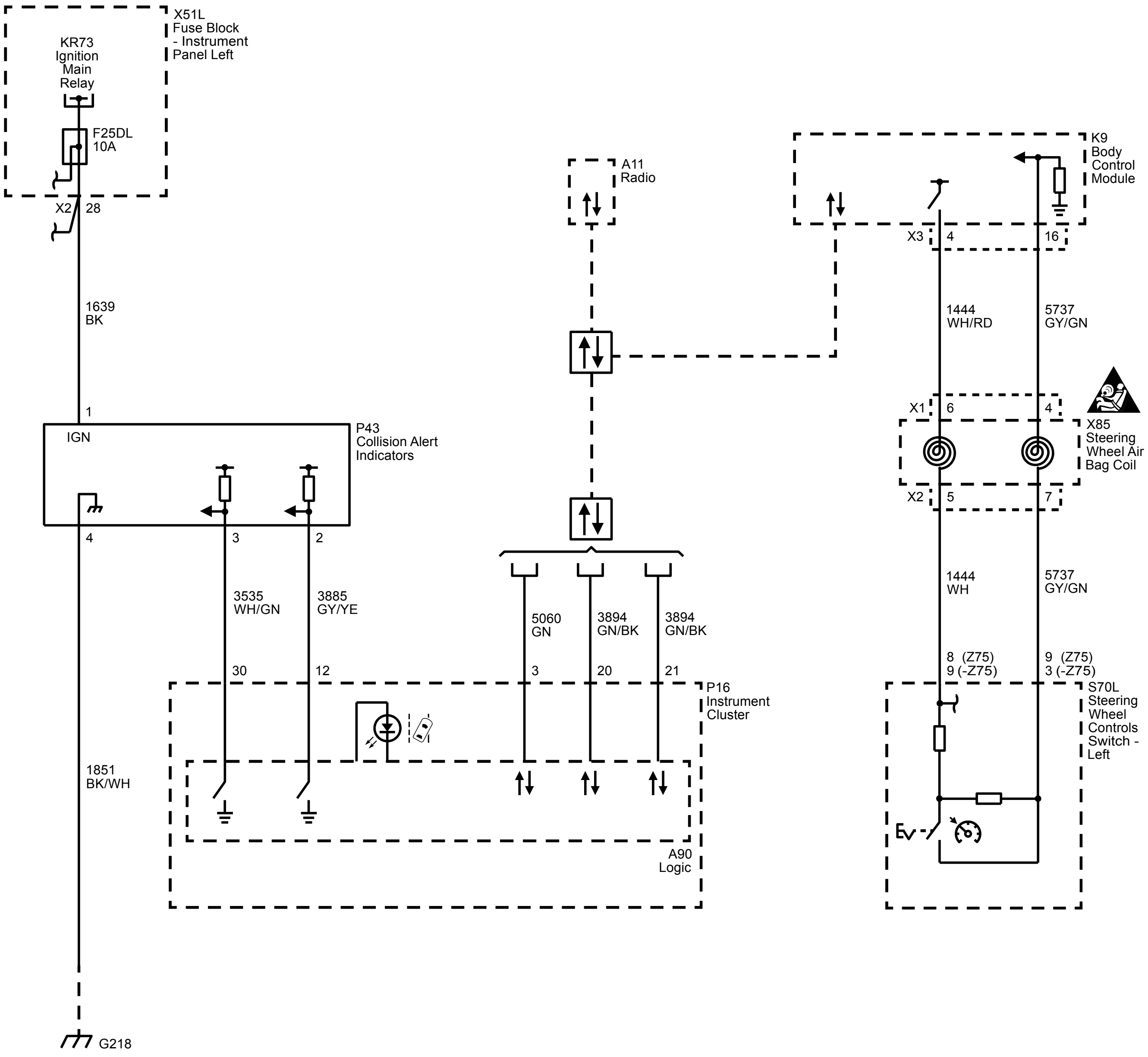
Side Blind Zone Alert (UKC)


B+
X51R
Fuse Block -
Instrument
Panel Right
F28DR
15A
X1
43
3140
RD/GN
J403
3140
RD/GN
X495
22
3140
RD/GN
3140
RD/GN
Data
Communication
Schematics
3140
RD/GN
5060
GN
J498
X495
17
3140
RD/GN
5060
GN
3830
YE/VT
3830
YE/VT
3140
RD/GN
8
1
3
3
8
B+
B+
B218L
Side Object
Sensor
Module -
Left
B218R
Side Object
Sensor
Module -
Right
7
4
5
4
5
7
2
1
1450
BK
3812
BU/WH
3810
BU/YE
3812
BU/WH
3810
BU/YE
1450
BK
5853
GY/YE
5861
GY
9
9
X495
15
16
5853
GY/YE
5861
GY
X500
37
X600
37
5853
GY/YE
5861
GY
15
15
5853
GY/YE
5861
GY
X3
1
A9A
Outside
Rearview
Mirror -
Driver
E17D
Outside
Rearview
Mirror
Glass -
Driver
X3
2
X3
1
A9B
Outside
Rearview
Mirror -
Passenger
E17P
Outside
Rearview
Mirror
Glass -
Passenger
X3
2
1150
BK
1250
BK
G402
G311
G312

Lane Departure Warning (UEU or UFL) without (UGN and Z75) (1 of 2)

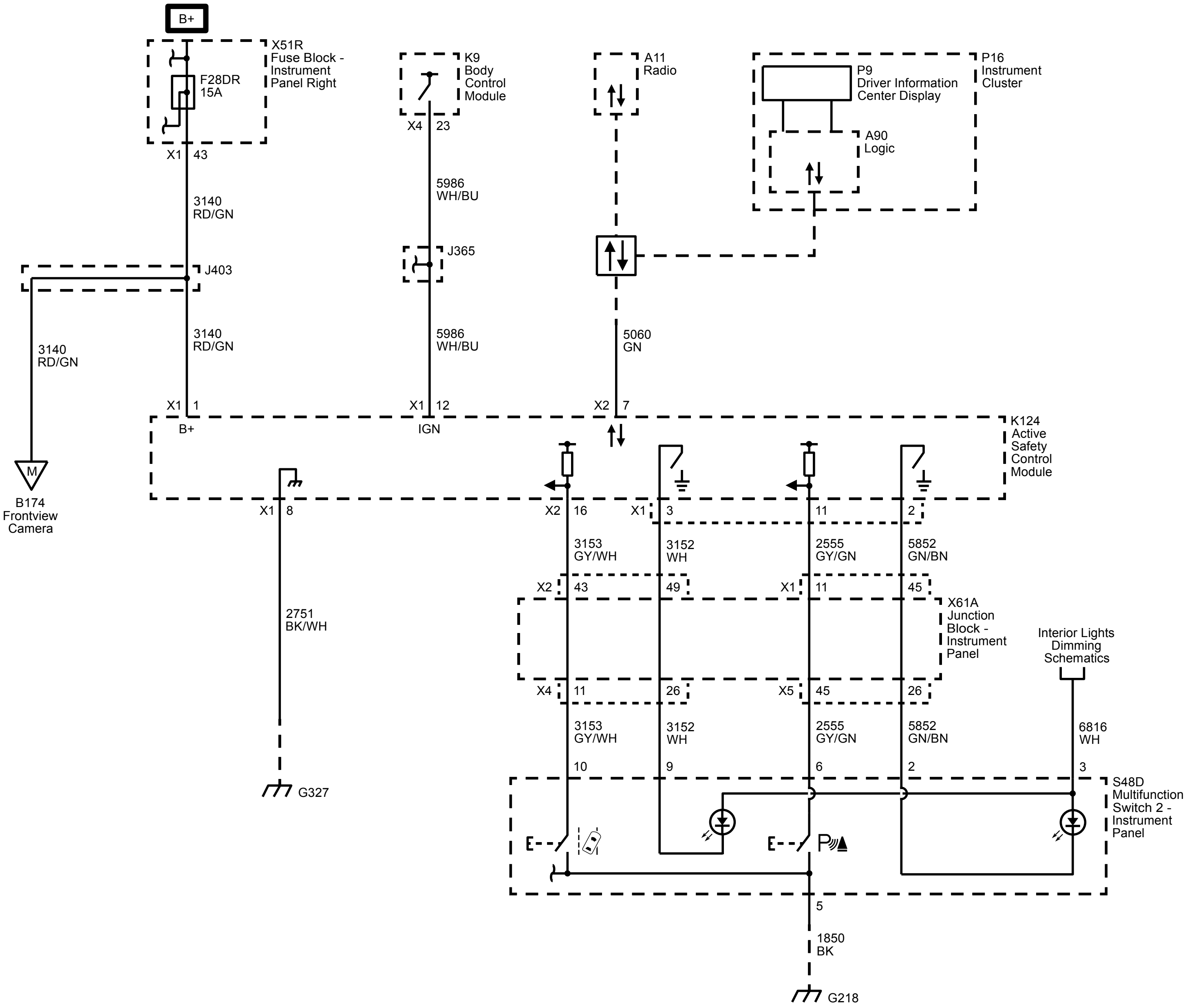

F11DL
K9 Body Control Module
X4 23
5986 WH/BU
J365
5986 WH/BU
X275 23
5986 WH/BU
J260
5986 WH/BU
X203 6
5986 WH/BU
9
IGN
B+
X51R Fuse Block - Instrument Panel Right
F28DR 15A
X1 43
3140 RD/GN
J403
3140 RD/GN
X2 5
X4 11
X61A Junction Block - Instrument Panel
X3 3
45
3140 RD/GN
3153 GY/WH
3153 GY/WH
3
B+
10
B174 Frontview Camera
1
7
6
5
4
1050 BK
5060 GN
2501 WH
2500 BU
Data Communication Schematics
3152 WH
X3 49
X61A Junction Block - Instrument Panel
X4 26
3152 WH
G210
X88/Z88
Z75-UGN
Interior Lights Dimming Schematics
Interior Lights Dimming Schematics
6816 WH
6816 WH
10
5
S48A Multifunction Switch - Instrument Panel
8
6
1850 BK
G218
X88/Z88
Z75-UGN
3
10
8
S48D Multifunction Switch 2 - Instrument Panel
12V
A90 Logic
9
5
1850 BK
G218
B+
X51R Fuse Block - Instrument Panel Right
F20DR 10A
X2 1
1540 RD/GN
J212
1540 RD/GN
LOC
DESC

Lane Departure Warning (UFL or UEU) without (UGN and Z75) (2 of 2)

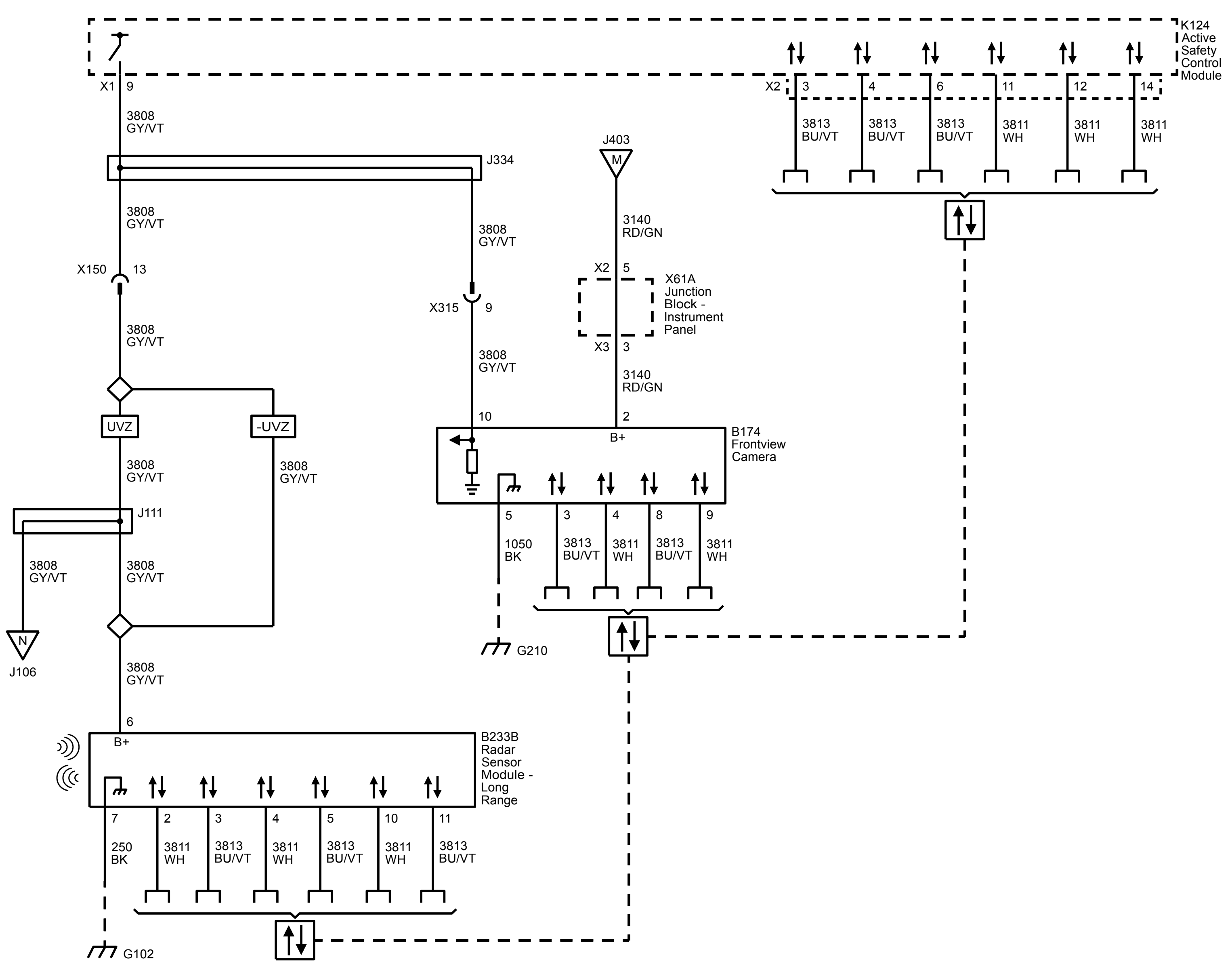


X51L
Fuse Block - Instrument Panel Left
KR73
Ignition Main Relay
F25DL
10A
X2
28
1639
BK
1
IGN
P43
Collision Alert Indicators
4
3
2
3535
WH/GN
3885
GY/YE
1851
BK/WH
G218
A11
Radio
5060
GN
3894
GN/BK
3894
GN/BK
30
12
3
20
21
P16
Instrument Cluster
A90
Logic
K9
Body Control Module
X3
4
16
1444
WH/RD
5737
GY/GN
X1
6
4
X85
Steering Wheel Air Bag Coil
X2
5
7
1444
WH
5737
GY/GN
8 (Z75)
9 (-Z75)
9 (Z75)
3 (-Z75)
S70L
Steering Wheel Controls Switch - Left

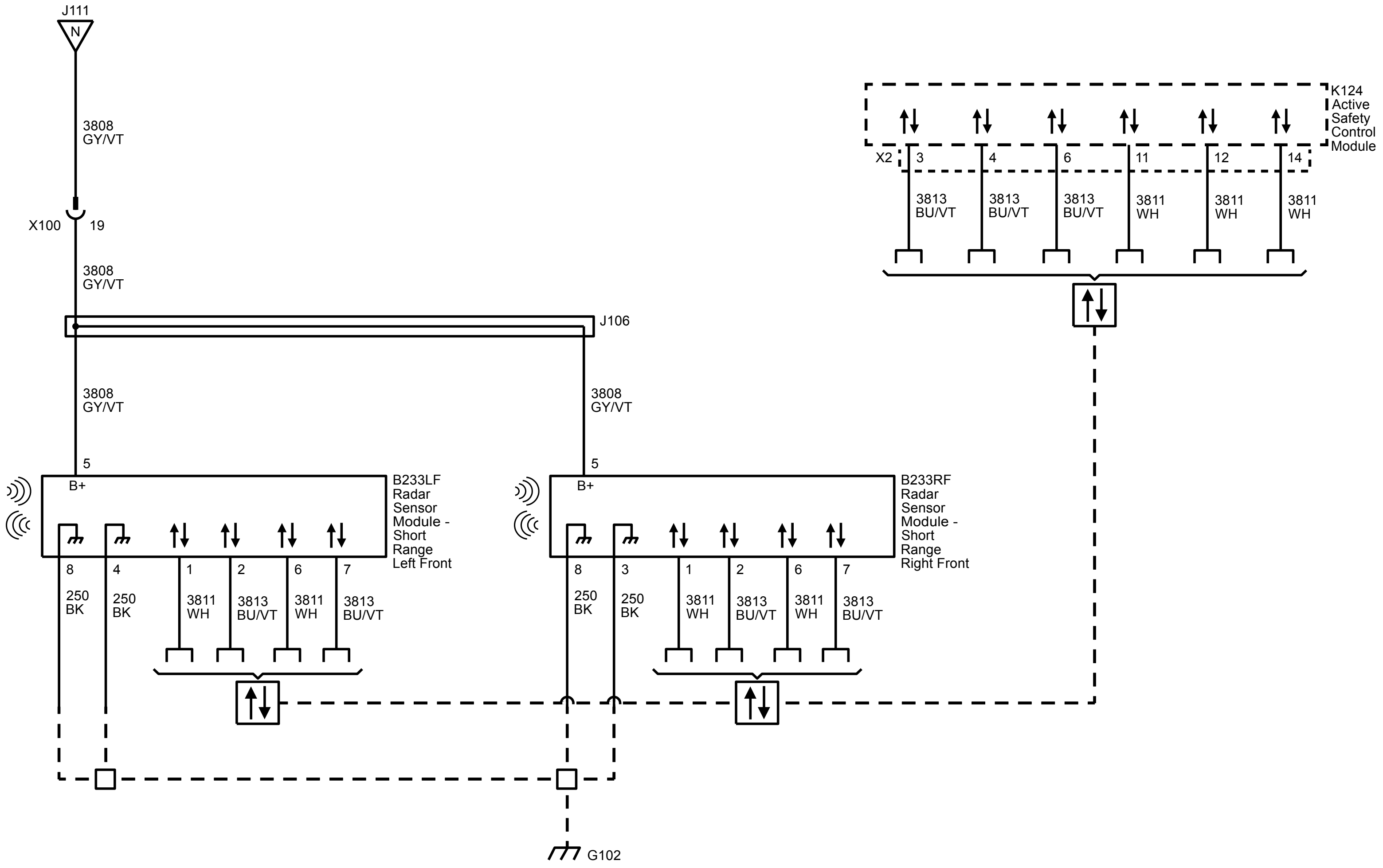
Comprehensive Safety - Power, Ground, Serial Data, and Multifunction Switch (UGN and Z75)


B+
X51R Fuse Block - Instrument Panel Right
F28DR 15A
X1 43
3140 RD/GN
J403
3140 RD/GN
3140 RD/GN
K9 Body Control Module
X4 23
5986 WH/BU
J365
5986 WH/BU
A11 Radio
5060 GN
P9 Driver Information Center Display
P16 Instrument Cluster
A90 Logic
X1 1
B+
X1 12
IGN
X2 7
K124 Active Safety Control Module
M
B174 Frontview Camera
X1 8
2751 BK/WH
G327
X2 16
X1 3
11
2
3153 GY/WH
3152 WH
2555 GY/GN
5852 GN/BN
X2 43
49
X1 11
45
X61A Junction Block - Instrument Panel
X4 11
26
X5 45
26
3153 GY/WH
3152 WH
2555 GY/GN
5852 GN/BN
Interior Lights Dimming Schematics
6816 WH
10
9
6
2
3
S48D Multifunction Switch 2 - Instrument Panel
P
5
1850 BK
G218

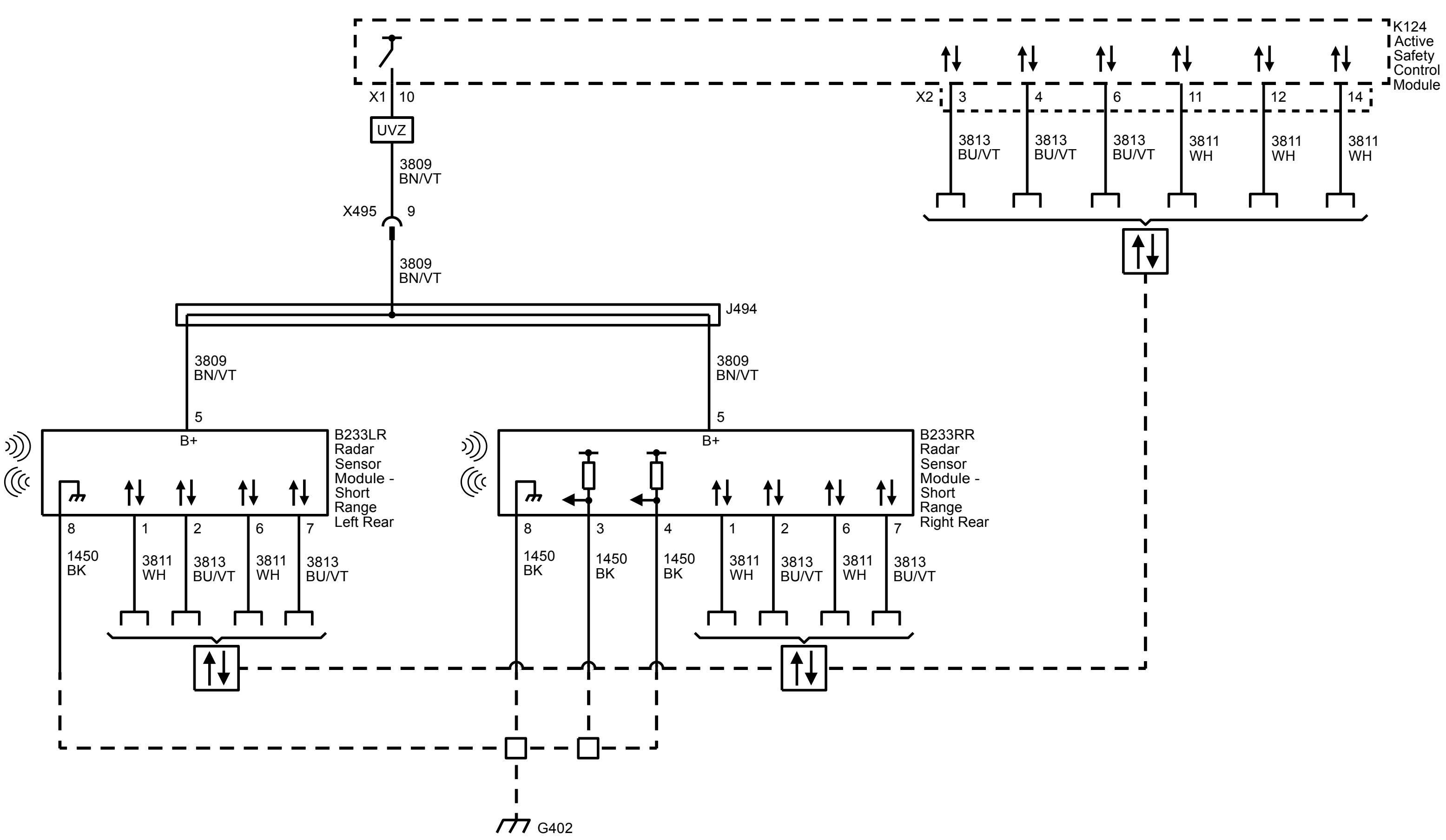
Comprehensive Safety - Camera and Front Long Range Radar (UGN and Z75)


K124 Active Safety Control Module
X1 9
3808 GY/VT
J334
3808 GY/VT
3808 GY/VT
X150 13
X315 9
3808 GY/VT
3808 GY/VT
UVZ
-UVZ
3808 GY/VT
3808 GY/VT
J111
3808 GY/VT
3808 GY/VT
N
J106
3808 GY/VT
6
B+
B233B Radar Sensor Module - Long Range
7 2 3 4 5 10 11
250 BK
3811 WH
3813 BU/VT
3811 WH
3813 BU/VT
3811 WH
3813 BU/VT
G102
J403
M
3140 RD/GN
X2 5
X61A Junction Block - Instrument Panel
X3 3
3140 RD/GN
10
2
B+
B174 Frontview Camera
5 3 4 8 9
1050 BK
3813 BU/VT
3811 WH
3813 BU/VT
3811 WH
G210
X2 3 4 6 11 12 14
3813 BU/VT
3813 BU/VT
3813 BU/VT
3811 WH
3811 WH
3811 WH

Comprehensive Safety - Front Short Range Radar (UGN and Z75 with UVZ)


J111
N
3808
GY/VT
X100
19
3808
GY/VT
J106
3808
GY/VT
3808
GY/VT
5
B+
B233LF
Radar
Sensor
Module -
Short
Range
Left Front
8
4
1
2
6
7
250
BK
250
BK
3811
WH
3813
BU/VT
3811
WH
3813
BU/VT
5
B+
B233RF
Radar
Sensor
Module -
Short
Range
Right Front
8
3
1
2
6
7
250
BK
250
BK
3811
WH
3813
BU/VT
3811
WH
3813
BU/VT
G102
K124
Active
Safety
Control
Module
X2
3
4
6
11
12
14
3813
BU/VT
3813
BU/VT
3813
BU/VT
3811
WH
3811
WH
3811
WH

Comprehensive Safety - Rear Radar (UGN and Z75)


K124
Active
Safety
Control
Module
X1
10
UVZ
3809
BN/VT
X495
9
3809
BN/VT
J494
X2
3
4
6
11
12
14
3813
BU/VT
3813
BU/VT
3813
BU/VT
3811
WH
3811
WH
3811
WH
3809
BN/VT
3809
BN/VT
5
B+
B233LR
Radar
Sensor
Module -
Short
Range
Left Rear
8
1
2
6
7
1450
BK
3811
WH
3813
BU/VT
3811
WH
3813
BU/VT
5
B+
B233RR
Radar
Sensor
Module -
Short
Range
Right Rear
8
3
4
1
2
6
7
1450
BK
1450
BK
1450
BK
3811
WH
3813
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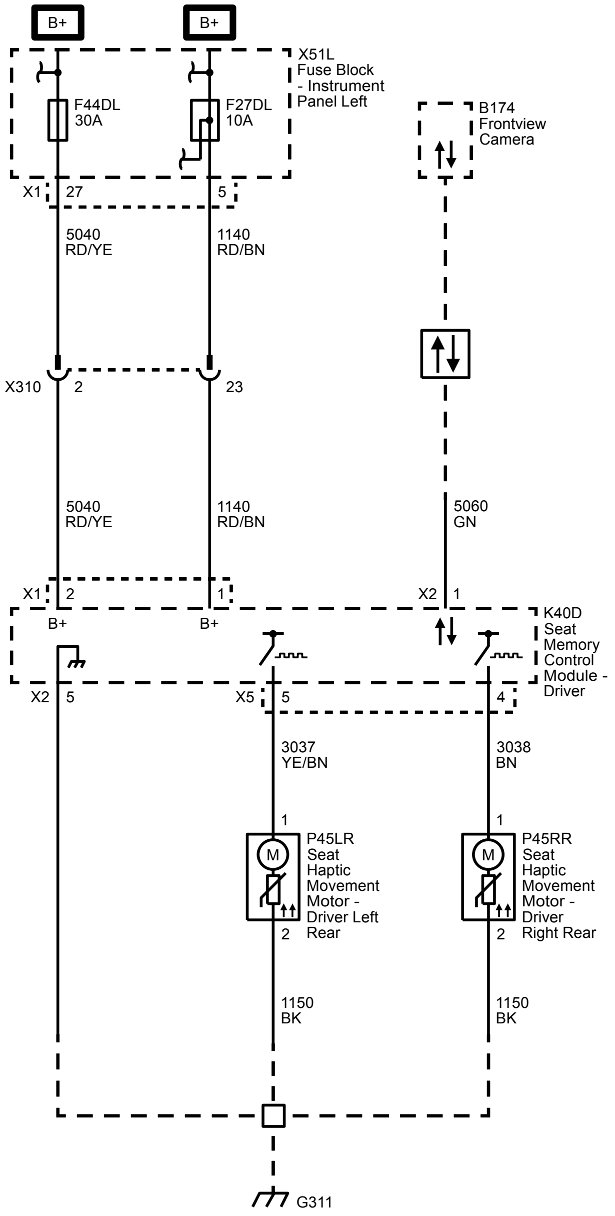
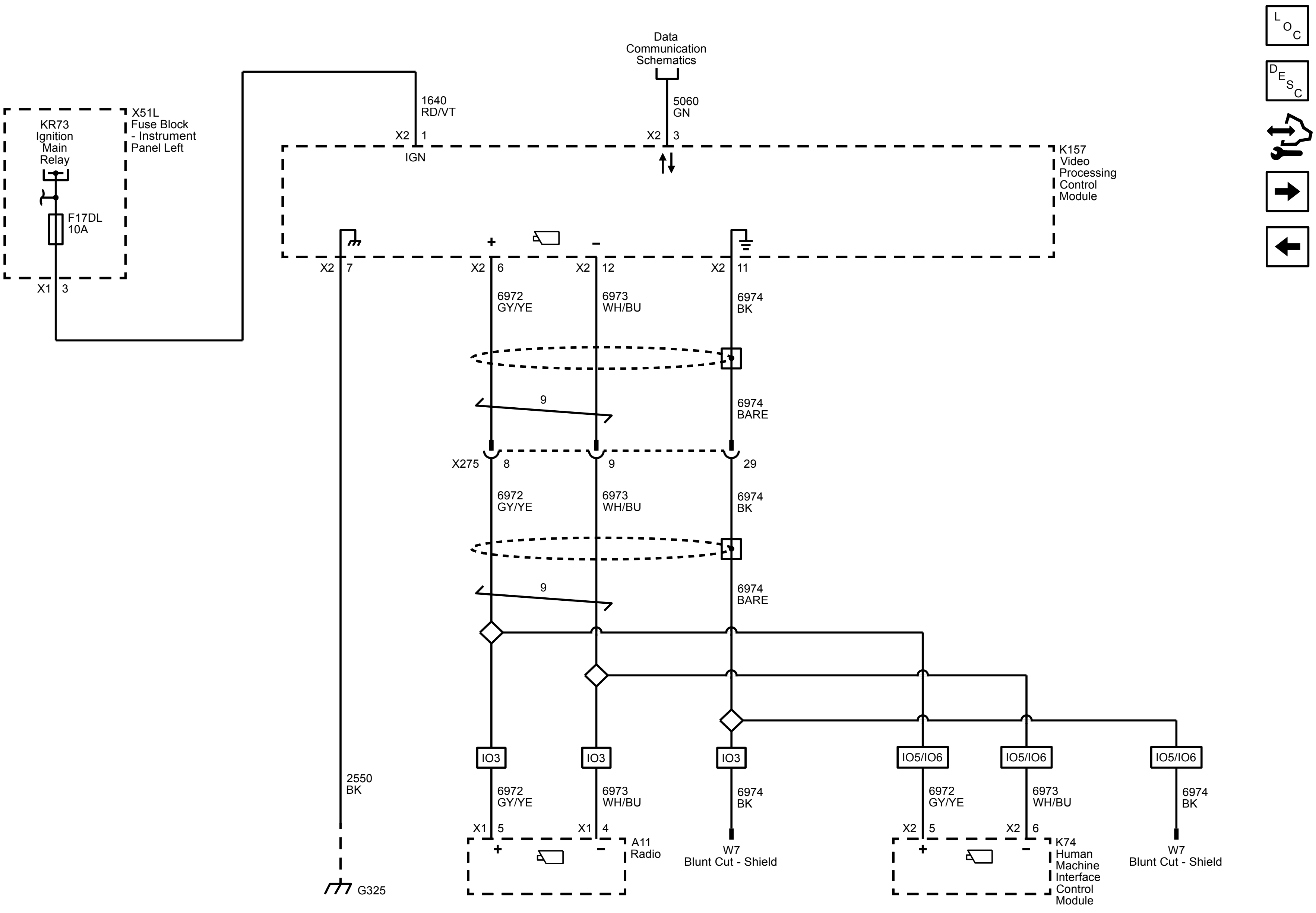
3811
WH
3813
BU/VT
G402

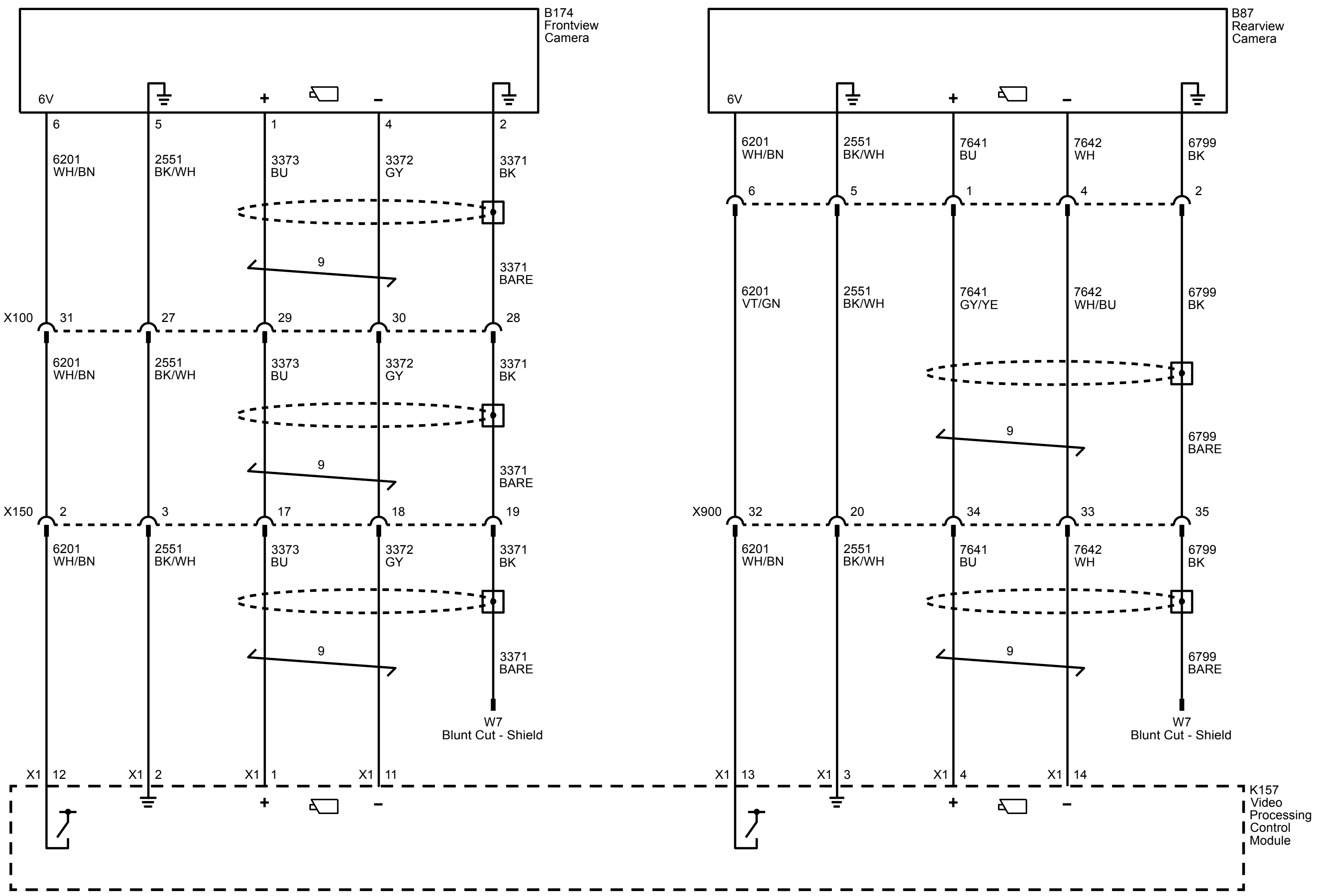

B+
B+
X51L
Fuse Block
- Instrument
Panel Left
F44DL
30A
F27DL
10A
B174
Frontview
Camera
X1
27
5
5040
RD/YE
1140
RD/BN
X310
2
23
5040
RD/YE
1140
RD/BN
5060
GN
X1
2
1
X2
1
K40D
Seat
Memory
Control
Module -
Driver
B+
B+
X2
5
X5
5
4
3037
YE/BN
3038
BN
1
1
P45LR
Seat
Haptic
Movement
Motor -
Driver Left
Rear
P45RR
Seat
Haptic
Movement
Motor -
Driver
Right Rear
M
M
2
2
1150
BK
1150
BK
G311

360 Degree Vision - Power, Ground, and Serial Data (UVH)

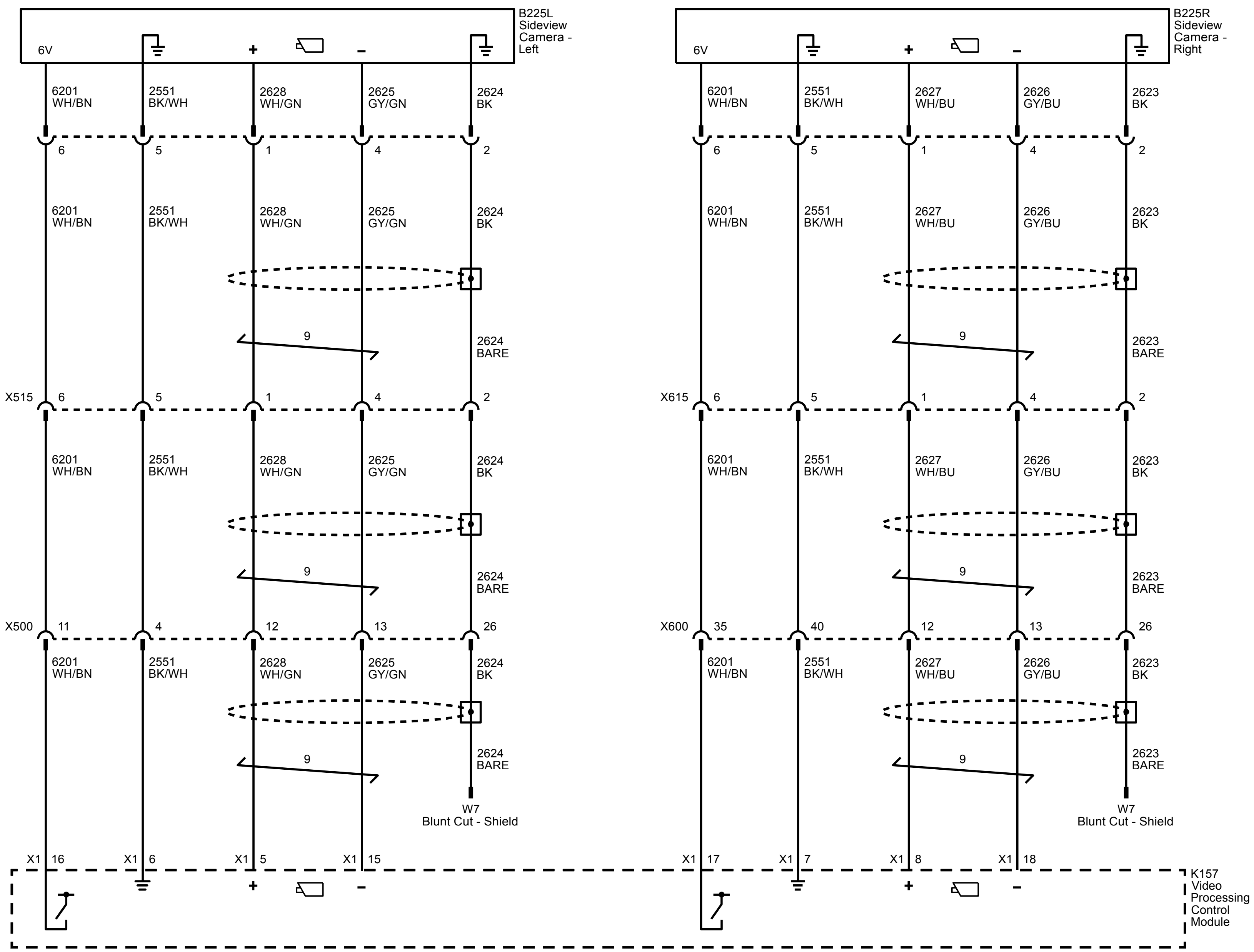


Data Communication Schematics
KR73 Ignition Main Relay
X51L Fuse Block - Instrument Panel Left
F17DL 10A
X1 3
1640 RD/VT
X2 1
IGN
5060 GN
X2 3
K157 Video Processing Control Module
X2 7
X2 6
X2 12
X2 11
+
-
6972 GY/YE
6973 WH/BU
6974 BK
9
6974 BARE
X275 8
9
29
6972 GY/YE
6973 WH/BU
6974 BK
9
6974 BARE
IO3
IO3
IO3
IO5/IO6
IO5/IO6
IO5/IO6
2550 BK
6972 GY/YE
6973 WH/BU
6974 BK
6972 GY/YE
6973 WH/BU
6974 BK
X1 5
X1 4
A11 Radio
W7 Blunt Cut - Shield
X2 5
X2 6
K74 Human Machine Interface Control Module
W7 Blunt Cut - Shield
G325
L O C
D E S C

360 Degree Vision - Front and Rear Cameras (UVH)


B174
Frontview
Camera
6V
6
5
1
4
2
6201
WH/BN
2551
BK/WH
3373
BU
3372
GY
3371
BK
9
3371
BARE
X100
31
27
29
30
28
6201
WH/BN
2551
BK/WH
3373
BU
3372
GY
3371
BK
9
3371
BARE
X150
2
3
17
18
19
6201
WH/BN
2551
BK/WH
3373
BU
3372
GY
3371
BK
9
3371
BARE
W7
Blunt Cut - Shield
B87
Rearview
Camera
6V
6201
WH/BN
2551
BK/WH
7641
BU
7642
WH
6799
BK
6
5
1
4
2
6201
VT/GN
2551
BK/WH
7641
GY/YE
7642
WH/BU
6799
BK
9
6799
BARE
X900
32
20
34
33
35
6201
WH/BN
2551
BK/WH
7641
BU
7642
WH
6799
BK
9
6799
BARE
W7
Blunt Cut - Shield
X1 12
X1 2
X1 1
X1 11
X1 13
X1 3
X1 4
X1 14
+
–
K157
Video
Processing
Control
Module

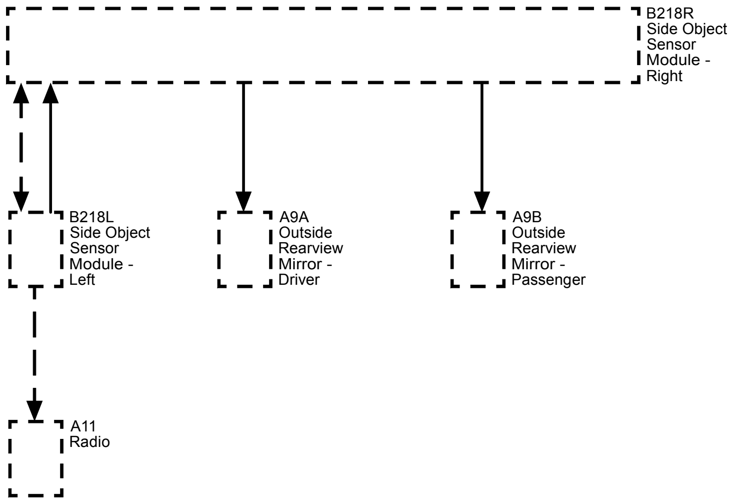
360 Degree Vision - Side Vision Cameras (UVH)


B225L Sideview Camera - Left
6V
6201 WH/BN
2551 BK/WH
2628 WH/GN
2625 GY/GN
2624 BK
6
5
1
4
2
9
2624 BARE
X515
X500
11
4
12
13
26
W7 Blunt Cut - Shield
B225R Sideview Camera - Right
6201 WH/BN
2551 BK/WH
2627 WH/BU
2626 GY/BU
2623 BK
2623 BARE
X615
X600
35
40
X1 16
X1 6
X1 5
X1 15
X1 17
X1 7
X1 8
X1 18
K157 Video Processing Control Module

Description and Operation

Object Detection Description and Operation (with Lane Change Assist, UKC)

Side Blind Alert Block Diagram



The lane change alert system is an advanced side blind zone alert feature that utilizes the side object sensor modules that are also used for rear cross traffic alert. The lane change alert system is designed to provide enhanced customer convenience by sensing and reporting to the driver that an object is present in one of the driver's side blind zones, or that a highway licensable vehicle is rapidly approaching the vehicle in one of the adjacent lanes. This is communicated to the driver by illuminating an icon on the left or right side view mirror, depending on what side of the vehicle the object is detected. The lane change alert system is radar based system in which the sensors transmit and receives energy that is reflected from external objects and used to determine if that object is an object of interest. Although this system is intended to help drivers avoid lane change crashes, it does not replace driver vision and therefore should be considered a lane change aid.

Lane Change Alert System Components

The lane change alert system is made up of the following components:

- Side object sensor module – left
- Side object sensor module – right
- Driver outside rearview mirror
- Passenger outside rearview mirror

Side Object Sensor Modules

The side object sensor modules are located on each side of the vehicle behind the rear fascia and are not directly visible from outside the vehicle. The sensors use radar to determine the presence of objects nearby. The left side object sensor is the master that communicates on serial data. There is a private communication network between the left and right sensors. The scan tool is able to communicate only with the left sensor.

When an object is detected in the left side blind zone or approaching in the left side lane change alert zone, the side object sensor module sends a message to the right sensor through serial data. The right sensor then supplies voltage to illuminate the visual indicator on the left side outside rear view mirror. When an object is detected in the right side blind zone or approaching in the right side lane change alert area, the right side object sensor will supply a voltage to illuminate the visual indicator on the right side outside rear view mirror. Each sensor is supplied B+ and ground.

Outside Rearview Mirrors

The outside rearview mirrors contain an icon that is backlit with high intensity, amber-colored LED's located on the mirror surface. The display brightness adapts to day/night conditions. The side blind zone alert indicator icon in the left or right outside rearview mirror is illuminated if the left or right side object sensor module detects a vehicle in the side blind zone or approaching in the lane change alert area to inform the driver that it may not be safe to change lanes.

Lane Change Alert Operation

The lane change alert system shall detect and report "objects of interest" in the driver's blind zone, or approaching on either side of the vehicle, within a specified lane change zone. The system is designed to alert the driver, with a visual display placed on the side view mirror, to the presence of objects of interest that may not be visible in the inside rearview mirror and outside rear view mirrors. Although this system is intended to help drivers avoid lane change crashes, it does not replace driver vision and therefore should be considered a lane change aid. Even with the lane change alert system, the driver must check carefully for objects outside of the reporting zone before changing lanes. In the event that the system senses a malfunction through its diagnostic routines, the system will be disabled and the driver will be visually notified.

When the vehicle is started, both outside mirror displays will briefly come on to indicate that the system is operating. The warning symbols will vary brightness based on the ambient light conditions. Lane change alert is active when the vehicle is out of park or the parking brake is off on manual transmission vehicles. When the system detects a vehicle in the side blind zone or approaching in the lane change alert zone while driving forward, an amber warning symbol will light up in the appropriate outside mirror. This indicates that it may be unsafe to change lanes. If the driver then activates the turn signal, the amber warning symbol starts flashing as an extra warning not to change lanes.

The system is designed to detect objects of interest as small as a 125cc motorcycle with rider. The detection zone starts at the outside rearview mirror and extends out to 3.5 m (11 ft) at the back corner of the vehicle and 70m (230 ft) behind the vehicle at a height of 0.5 m (1.5 ft) to 2.0 m (6 ft) above the ground. The side blind zone system does not detect stationary objects such as guardrails, posts, curbs, walls, berms, bridges, or parked vehicles.

If the vehicle is towing a trailer or has an object such as a bicycle rack attached to the rear of the vehicle, the lane change alert system may not function properly and the indicators may illuminate intermittently or remain illuminated all the time. The driver information center may display “SIDE DETECTION SYSTEM UNAVAILABLE”.

Foul weather may affect the operation of the lane change alert system. Occasional missed alerts can occur under normal circumstances and will increase in wet conditions. The number of missed alerts will increase with increased rainfall or road spray. Heavy rainfall, as well as mud, dirt, snow, ice, or slush build-up on the rear fascia, can completely disable the system. The warning symbols will vary brightness based on the ambient light conditions.

Lane Change Alert Driver Information Center Messages

LANE CHANGE ALERT OFF

This message indicates that the system has been disabled through the driver information center. Refer to the vehicle owners manual for instructions on how to set personalization options on the driver information center.

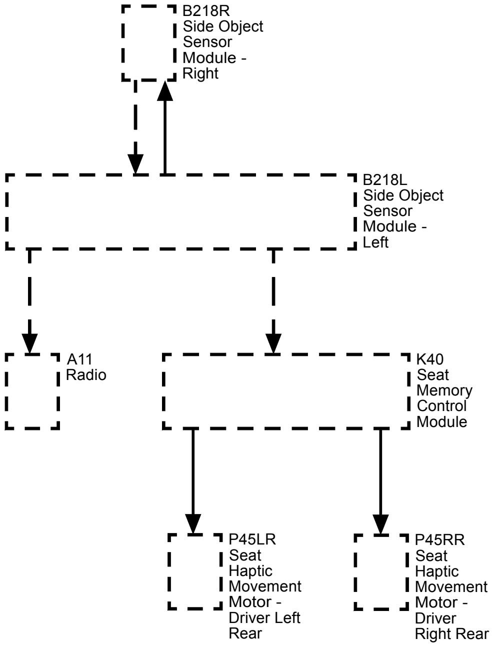
SERVICE SIDE DETECTION SYSTEM

This message indicates that the system requires service. When the message is displayed, the indicators may remain illuminated at all times, notifying the driver that the side blind zone system should not be relied upon when changing lanes. Check vehicle for DTCs to determine the cause of this notification.

SIDE DETECTION SYSTEM TEMPORARILY UNAVAILABLE

This message indicates that the system has been temporarily disabled because the sensor is blocked or can otherwise not accurately detect vehicles or objects. Verify there is no damage to rear fascia or there are any bumper stickers that may interfere with the radar signals. Ask the customer if any of the following circumstances were present when the system became unavailable: towing a trailer, having a bike rack attached, mud, dirt, snow, ice, or slush build-up on the rear fascia, heavy rainfall, or excessive road spray.

Rear Cross Traffic Alert Block Diagram



The rear cross traffic alert system is a feature that utilized two side object sensor modules to provide enhanced customer convenience while backing up by sensing and providing warnings to the driver on impending rear cross traffic. The rear cross traffic alert system is designed to detect and track moving objects as small as a 125cc motorcycle with rider within a specified coverage zone behind the vehicle. The system is designed to alert the driver, with a visual display and either an audible sound or a haptic warning, if equipped and enabled, to the presence of moving objects of interest that may cause a collision with the host vehicle. Although the system is intended to assist drivers in backing up, it does not replace driver's vision. The driver is responsible to check carefully for objects outside of the coverage zone (e.g., a fast approaching vehicle) for a safe backing maneuver.

Rear Cross Traffic Alert System Components

The side blind zone alert system is made up of the following components:

- Left side object sensor module
- Right side object sensor module
- Visual Display Icons located on the infotainment display screen
- Audio system chime
- Haptic safety seat (if equipped)

Side Object Sensor Modules

The side object sensor modules are located on each side of the vehicle behind the rear fascia and are not directly visible from outside the vehicle. The sensors use radar to determine the presence of moving objects nearby. The left side object sensor is the master that communicates on serial data. There is a private communication network between the left and right sensors. The scan tool is able to communicate only with the left sensor.

When a moving object is detected in the left rear cross traffic zone while the engine is running and the transmission in reverse, the side object sensor module sends a serial data message to the human interface module and memory seat module to provide alerts. Each sensor is supplied B+ and ground.

Display Icons

The rear cross traffic alert system visual alert display consists of two visual icons, one on each side of the display screen of the rearview camera display, that are used to alert the driver on rear cross traffic from each side of the host vehicle respectively. In addition to visual indicators, the audio system will beep (if enabled) and the haptic safety seat will vibrate (if equipped and enabled). Refer to owner's manual for vehicle customization.

Audio or Haptic Notification

The alert output type can be driver selected to either audio or haptic. The chime location will be left rear for left rear cross traffic alert and right rear for right rear cross traffic alert. The haptic seat system response will be to generate 3 repetitions of haptic vibration in the left rear area of the seat for left cross traffic alert and right rear area of the seat for right cross traffic alert. If there is a problem with the haptic seats, the audio chime will be substituted.

Rear Cross Traffic Alert Operation

The rear cross traffic alert system is designed to detect moving objects of interest as small as a 125cc motorcycle with rider. The detection zone extends approximately 30m (99 ft) from the rear corner of the car and covers an area from behind the vehicle to 125 degrees towards the front at a height of 0.45m (1.5 ft) to 2m (6.5 ft) above ground. The system operates when vehicle speed is 10 kph (6 mph) or less and is designed to detect objects moving at speeds up to 36 kph (22 mph).

When the vehicle is backing up, the side object sensors receive energy that is reflected from external objects and determine if the objects are objects of interest or not. The system may at times detect pedestrians, shopping carts, or similar moving objects. This is normal and should not be considered as a false alert or problem with the system. The rear cross traffic alert system will estimate vehicle travel trajectory and use the information in conjunction with object travel trajectory information to determine if there is a potential collision between the vehicle and the object of interest. The rear cross traffic alert function will only alert on objects of interest that pose a potential collision with the host vehicle. The system is not designed to provide an alert to objects that have no potential collision with vehicle. In addition, the system will not alert to stationary objects such as signs, parked cars, etc.

If the vehicle is towing a trailer or has an object such as a bicycle rack attached to the rear of the vehicle, the rear cross traffic alert system may not function properly.

Foul weather may affect the operation of the rear cross traffic alert system. Occasional missed alerts can occur under normal circumstances and will increase in wet conditions. The number of missed alerts will increase with increased rainfall or road spray. Heavy rainfall, as well as mud, dirt, snow, ice, or slush build-up on the rear fascia, can completely disable the system.

Rear Cross Traffic Alert Driver Information Center Messages

REAR CROSS TRAFFIC ALERT OFF

This message indicates that the system has been disabled through the driver information center. Refer to the vehicle owners manual for instructions on how to set personalization options on the driver information center.

SERVICE SIDE DETECTION SYSTEM

This message indicates that the system requires service. Since the side object sensors are also used for side blind zone alert and/or lane change alert, these feature will also be inoperative. Check vehicle for DTCs to determine the cause of this notification.

SIDE DETECTION SYSTEM TEMPORARILY UNAVAILABLE

This message indicates that the system has been temporarily disabled because the sensors are blocked or can otherwise not accurately detect vehicles or objects. Verify there is no damage to rear fascia or there are any bumper stickers that may interfere with the radar signals. Ask the customer if any of the following circumstances that present when the system became unavailable: mud, dirt, snow, ice, or slush build-up on the rear fascia, heavy rainfall, or excessive road spray.

Object Detection Description and Operation (with Front and Rear Park Assist, UD5)

The parking assist system is designed to identify and notify the driver of an object in the vehicle path when moving forward or reversing at speeds of less than 8 km/h (5 MPH). The distance and location of the object is determined by 8 object sensors: 4 located in the rear bumper and 4 located in the front bumper. The parking assist system will notify the driver using audible beeps through the radio or haptic pulses through the driver’s seat. The driver can select between audible or haptic alerts in the vehicle personalization menus. See the user’s manual for more detailed information on vehicle personalization.

The parking assist system is made up of the following components:

- Parking assist control module
- Front object sensors
- Rear object sensors
- Parking assist switch
- Parking assist indicator
- Radio
- Safety Alert Seat, if equipped.

Parking Assist Control Module

The parking assist control module provides a reference voltage and a low reference to the 8 object alarm sensors. The parking assist control module receives individual signals from each of the 8 sensors and determines the location and distance of an object based on these inputs. When an object is detected, the parking assist control module will send a data message via serial data to the radio requesting an audible alert.

Object Sensors

The object sensors are located in the front and rear bumpers of the vehicle. The sensors are used to determine the distance between an object and the bumper. Each sensor emits an ultrasonic frequency which is reflected off any object located in front of or behind the vehicle. These reflections are received by the sensors. The time difference between the emission of the frequency and when the reflection is received is known as sensor echo time, it is used to determine the distance to the object. The sensors report this information to the parking assist control module.

Parking Assist Switch

The parking assist can be activated and deactivated by pressing the parking assist switch. By engaging the reverse gear the parking assist can also be activated. By subsequently pressing the parking assist switch the parking assist can be disabled again.

Parking Assist Indicator

The indicator in the parking assist switch shows the status of the parking assist. If the lamp is ON, the parking assist is activated.

Radio

The radio controls the audible alert for the park assist alert. If the an object is detected the radio will command beeps as an audible alert to the driver.

Safety Alert Seat

The memory seat module controls the haptic alert provided by the seats. If an object is detected, the memory seat module will command pulses to the driver’s seat.

Parking Assist Operation

When an object is within the measuring range of the sensor, the ultrasonic pulse is reflected and is received by the sending or a neighboring sensor. The sensor converts this signal into a voltage signal and sends this signal to the parking assist control module. The parking assist control module evaluates the received sensor signals. As soon as an object is within the measuring range, the parking assist control module sends a message via serial data to either the radio or seat module to provide an alert signal.

The parking assist system can detect objects greater than 7.6 cm (3 in) wide and 25.4 cm (10 in) tall. The system cannot detect objects below the bumper, underneath the vehicle. If an object is detected, one of the following will occur:

- The measuring range of the front object sensors is between 30–120 cm (11.8–47.2 in). From a distance of 120 cm (47.2 in), the acoustic signal is active. The frequency of the beep sound increases with decreasing distance. From a distance less than 30 cm (11.8 in), the sound becomes continuous.
- The measuring range of the rear object sensors is between 30–250 cm (11.8–98.4 in). From a distance of 250 cm (98.4 in), the acoustic signal is active. The frequency of the beep sound increases with decreasing distance. From a distance less than 30 cm (11.8 in), the sound becomes continuous.

The parking assist can be activated and deactivated by pressing the parking assist switch. When REVERSE gear is selected, park assist automatically is engaged for both front and rear sensors. When the vehicle is put into DRIVE from REVERSE the front assist sensors will be active up to speeds of 8 km/h (5 MPH) to assist with parking maneuvers. Once the vehicle is above 8 km/h (5 MPH) the front sensors are disabled and will not be re-enabled until either REVERSE gear is selected or the parking assist switch is pressed to activate the system. Once the parking assist switch is pressed during a key cycle the front sensors become active at speeds under 8 km/h (5 MPH). If the park assist switch is pressed again in the same key cycle the message “Park Assist Off” will be displayed in the driver information center if the vehicle speed is under 8 km/h (5 MPH) and front sensors detect an object within 120 cm (47.2 in). The LED indicator on the parking assist switch provides the ON/OFF state of the system. If the indicator is ON, the system is active and ready to assist.

The parking assist control module carries out a self test and monitors the sensors for electrical and mechanical faults. Monitored is the power supply of each sensor and the sensor signals, which need to alter when the vehicle moves. If this is not the case, the sensor is acoustically blocked or faulty. Mud, ice and snow may cause obstruction of the function of the sensors. The parking assist control module also checks whether the correct type of sensor is installed. If any of these tests fails, a DTC with corresponding symptom is set, the parking assist is deactivated and the parking assist indicator in the instrument panel cluster is activated.

Parking Assist System Driver Information Center Messages

SERVICE PARK ASSIST

The driver information center displays SERVICE PARK ASSIST when the parking assist control module detects a malfunction in the parking assist system and the system is disabled. The driver information center also displays SERVICE PARK ASSIST when a loss of communication occurs with the parking assist control module.

PARK ASSIST OFF

The PARK ASSIST OFF message is displayed in the driver information center when the parking assist system is disabled due to conditions that disable or inhibit the system. The parking assist control module requests the driver information center display PARK ASSIST OFF when it detects that one of the following conditions:

- The parking assist system is manually disabled using the parking assist switch.
- An object is attached to the rear of the vehicle, such as a trailer, bicycle rack, trailer hitch receiver, or tow bar. Also, an object extending beyond a lowered tailgate will disable the system.
- The parking assist sensors are covered by snow, mud, dirt, slush, or ice.
- The vehicle bumper is damaged.
- Excessive paint thickness on a replacement parking assist sensor.
- The parking assist sensors are disrupted by vibrations, like those caused by a large nearby vehicle or from heavy equipment such as a jackhammer.

Object Detection Description and Operation (with Rear Park Assist, UD7)

The parking assist system is designed to identify and notify the driver of an object in the vehicle path when reversing at speeds of less than 8 km/h (5 MPH). The distance and location of the object is determined by 4 object sensors located in the rear bumper. The parking assist system will notify the driver using audible beeps through the radio or haptic pulses through the driver's seat. The driver can select between audible or haptic alerts in the vehicle personalization menus. See the user's manual for more detailed information on vehicle personalization.

The parking assist system is made up of the following components:

- Parking assist control module
- Rear object sensors
- Parking assist switch
- Parking assist indicator
- Radio
- Safety Alert Seat, if equipped.

Parking Assist Control Module

The parking assist control module provides a reference voltage and a low reference to the 4 object alarm sensors. The parking assist control module receives individual signals from each of the 4 sensors and determines the location and distance of an object based on these inputs. When an object is detected, the parking assist control module will send a data message via serial data to the radio requesting an audible alert.

Object Sensors

The object sensors are located in the rear bumpers of the vehicle. The sensors are used to determine the distance between an object and the bumper. Each sensor emits an ultrasonic frequency which is reflected off any object located in front of or behind the vehicle. These reflections are received by the sensors. The time difference between the emission of the frequency and when the reflection is received is known as sensor echo time, it is used to determine the distance to the object. The sensors report this information to the parking assist control module.

Parking Assist Switch

The parking assist can be activated and deactivated by pressing the parking assist switch. By engaging the reverse gear the parking assist can also be activated. By subsequently pressing the parking assist switch the parking assist can be disabled again.

Parking Assist Indicator

The indicator in the parking assist switch shows the status of the parking assist. If the lamp is ON, the parking assist is activated.

Radio

The radio controls the audible alert for the park assist alert. If the an object is detected the radio will command beeps as an audible alert to the driver.

Safety Alert Seat

The memory seat module controls the haptic alert provided by the seats. If an object is detected, the memory seat module will command pulses to the driver's seat.

Parking Assist Operation

When an object is within the measuring range of the sensor, the ultrasonic pulse is reflected and is received by the sending or a neighboring sensor. The sensor converts this signal into a voltage signal and sends this signal to the parking assist control module. The parking assist control module evaluates the received sensor signals. As soon as an object is within the measuring range, the parking assist control module sends a message via serial data to the radio or seat module to provide an alert signal.

The parking assist system can detect objects greater than 7.6 cm (3 in) wide and 25.4 cm (10 in) tall. The system cannot detect objects below the bumper, underneath the vehicle.

The parking assist can be activated and deactivated by pressing the parking assist switch. When REVERSE gear is selected, park assist is automatically activated. By subsequently pressing the parking assist switch the parking assist can be disabled again.

The parking assist control module carries out a self test and monitors the sensors for electrical and mechanical faults. Monitored is the power supply of each sensor and the sensor signals, which need to alter when the vehicle moves. If this is not the case, the sensor is acoustically blocked or faulty. Mud, ice and snow may cause obstruction of the function of the sensors. The parking assist control module also checks whether the correct type of sensor is installed. If any of these tests fails, a DTC with corresponding symptom is set, the parking assist is deactivated and the parking assist indicator in the instrument panel cluster is activated.

Parking Assist System Driver Information Center Messages

SERVICE PARK ASSIST

The driver information center displays SERVICE PARK ASSIST when the parking assist control module detects a malfunction in the parking assist system and the system is disabled. The driver information center also displays SERVICE PARK ASSIST when a loss of communication occurs with the parking assist control module.

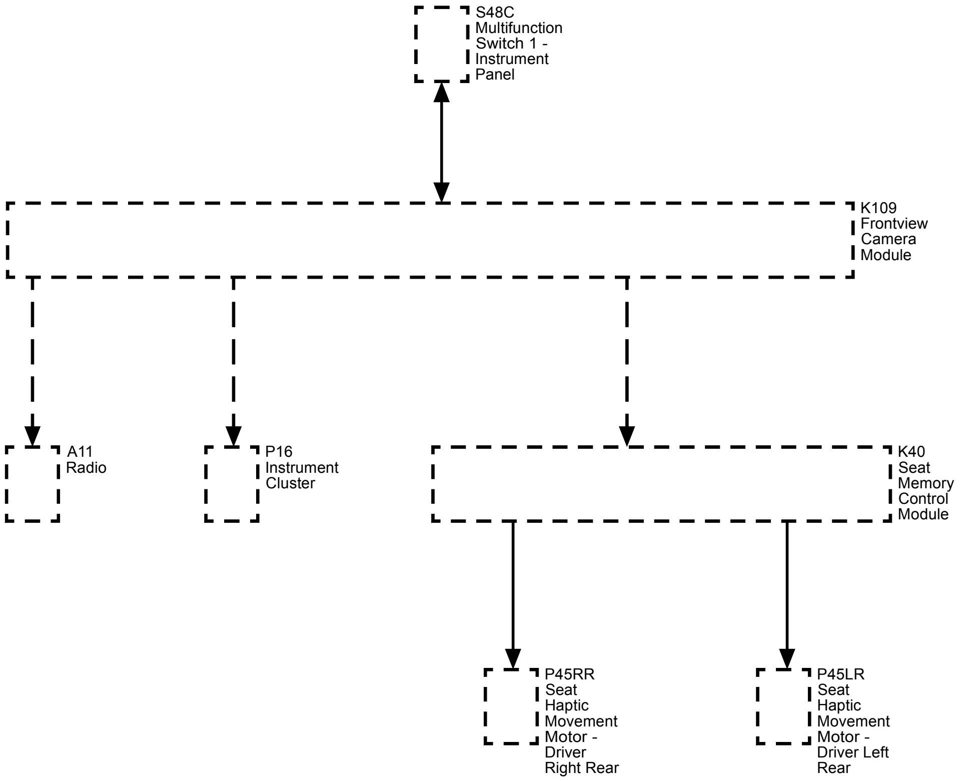
PARK ASSIST OFF

The PARK ASSIST OFF message is displayed in the driver information center when the parking assist system is disabled due to conditions that disable or inhibit the system. The parking assist control module requests the driver information center display PARK ASSIST OFF when it detects that one of the following conditions:

- The parking assist system is manually disabled using the parking assist switch.
- An object is attached to the rear of the vehicle, such as a trailer, bicycle rack, trailer hitch receiver, or tow bar. Also, an object extending beyond a lowered tailgate will disable the system.
- The parking assist sensors are covered by snow, mud, dirt, slush, or ice.
- The vehicle bumper is damaged.
- Excessive paint thickness on a replacement parking assist sensor.
- The parking assist sensors are disrupted by vibrations, like those caused by a large nearby vehicle or from heavy equipment such as a jackhammer.

Object Detection Description and Operation (with Lane Departure Warning, UFL)

Lane Departure Warning Block Diagram


S48C Multifunction Switch 1 - Instrument Panel
K109 Frontview Camera Module
A11 Radio
P16 Instrument Cluster
K40 Seat Memory Control Module
P45RR Seat Haptic Movement Motor - Driver Right Rear
P45LR Seat Haptic Movement Motor - Driver Left Rear

The lane departure warning system is a convenience feature of the front view camera that issues a warning when the system detects that the vehicle has unintentionally crossed a lane marking. The front view camera is located behind the windshield, looking out at the road ahead and detecting any lane markings. When the vehicle unintentionally leaves a detected lane, a visual and audible or haptic (pulses the seat, if equipped) alerts are given to the driver. The visual alert cannot be changed, but the driver can select between audible or haptic alerts in the vehicle personalization menus. See the user’s manual for more detailed information on vehicle personalization.

The lane departure warning system is made up of the following components:

- Front view camera module
- Lane departure warning switch / control indicator
- Instrument cluster / Vehicle Direction Display
- Radio
- Safety Alert Seat, if equipped

Front View Camera Module

The camera detects visual queues such as lane markings. When it is determined that the vehicle has unintentionally moved outside of the lane, visual, and audible or haptic warning is given to the driver. The front view camera module receives an input from the lane departure warning switch and controls the lane departure warning switch indicator output. The front view camera module also communicates via serial data with the instrument cluster, radio, and memory seat module to request visual, and audible or haptic alerts.

Lane Departure Warning Switch

The lane departure warning switch provides an input to the front view camera module to turn the lane departure warning system ON and OFF. The front view camera module provides a signal voltage to the normally open momentary switch. When the switch is pressed, the signal circuit is pulled to ground, indicating to the front view camera module that the system has been requested to turn ON or OFF. The lane departure warning switch also contains the lane departure warning switch indicator, which is controlled by the front view camera module to indicate the ON and OFF status of the lane departure warning system. When the system has been enabled by the lane departure warning switch, the front view camera module applies ground to the switch indicator and illuminates the LED. The location of the lane departure warning switch can vary with different vehicles. For the exact location please refer to the user's manual.

Instrument Cluster

The vehicle direction display contains green and amber lane departure warning indicators. These indicate to the driver the current status of the lane departure warning system and are controlled via serial data by the front view camera module. When the vehicle speed is above 56 km/h (35 MPH) and the system has detected the required lane markings and is ready to assist, the green indicator will be illuminated on the vehicle direction display. If the vehicle has unintentionally left the lane, the amber indicator will flash.

Radio

The radio controls the audible alert for the lane departure warning. If the vehicle has unintentionally left the lane, the radio will command three beeps as an audible alert to the driver.

Safety Alert Seat

The memory seat module controls the haptic alert provided by the seats. If the vehicle has unintentionally left the lane, the memory seat module will command three pulses to the left or right side of the seat, depending on the lane departure direction.

Lane Departure Warning Operation

System operation can be described by the following modes:

- Off State: The system has been turned off by the driver using the lane departure warning switch. The lane departure warning indicator will not be illuminated.
- Not Ready To Assist: The system is enabled and the lane departure warning indicator is illuminated, but not ready to assist when any of the following conditions is true:
    - Vehicle speed is less than 56 km/h (35 MPH). The system is designed to function at speeds greater than 56 km/h (35 MPH).
    - The system cannot detect lane markings. This may be because there are no lane markings, as on a country road or that the lane markings cannot be determined due to snow, rain, or other driving conditions.
    - The windshield area in front of the camera or the camera lens is blocked by fog, dirt, damage to the windshield or other elements that may prevent the camera from detecting lane markings.
- Ready To Assist: The system is enabled and ready to warn of the unintentional lane crossing. The system is ready to assist when the green lane departure warning indicator is illuminated on the vehicle direction display.

Lane Crossing Alerts

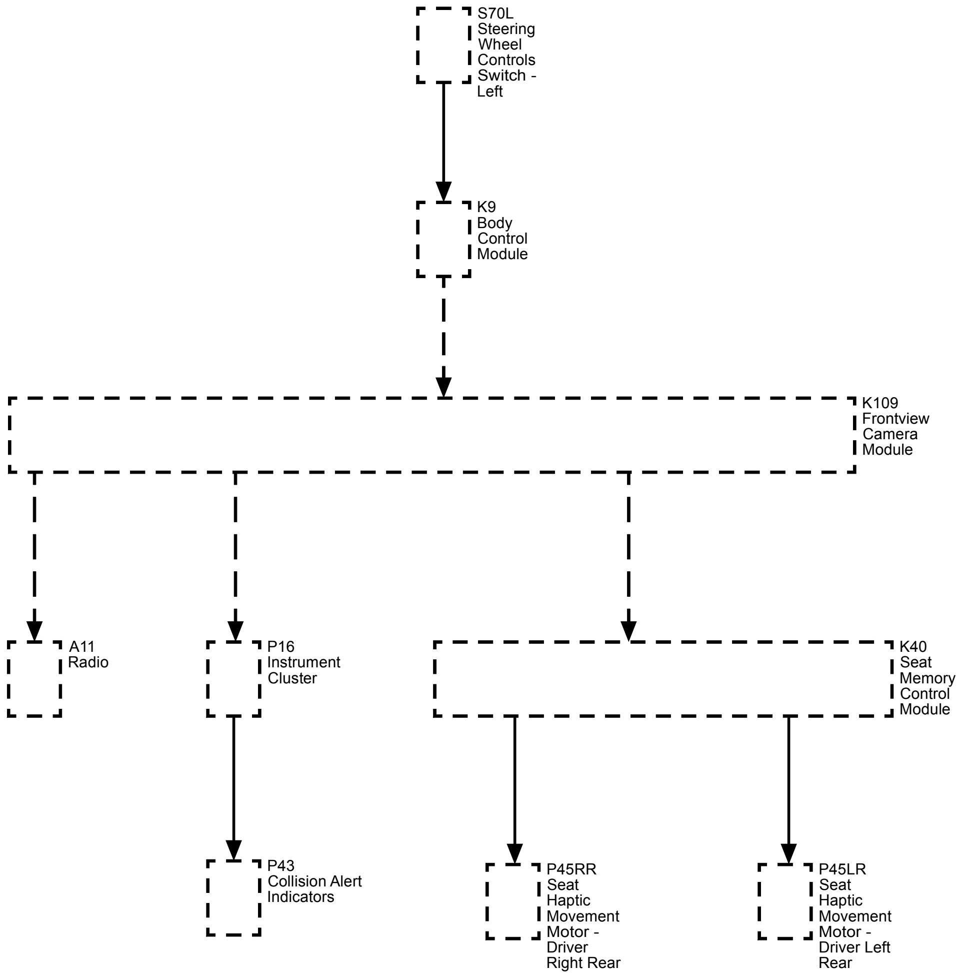
- When one of the following conditions are met, the system will not give alerts:
    - The correct turn signal is activated. An activated turn signal is interpreted as an intentional lane crossing.
    - The operator makes an intentional steering maneuver.
    - The operator makes an intentional accelerating maneuver.
    - The operator makes an intentional braking maneuver.
- Lane crossing alert consists of the following:
    - The amber lane departure warning indicator will flash.
    - Three chimes are activated through the radio.
    - or if equipped, three pulses to the left or right side of the seat.

Lane Departure Warning System Driver Information Center Messages

The front view camera module can command the driver information center to display the various messages to alert the driver of a system concern or status information. For detailed information about the possible messages please refer to the user's manual.

Object Detection Description and Operation (with Forward Collision Alert, UEU)

Forward Collision Alert Block Diagram


S70L Steering Wheel Controls Switch - Left
K9 Body Control Module
K109 Frontview Camera Module
A11 Radio
P16 Instrument Cluster
K40 Seat Memory Control Module
P43 Collision Alert Indicators
P45RR Seat Haptic Movement Motor - Driver Right Rear
P45LR Seat Haptic Movement Motor - Driver Left Rear

The forward collision alert system is a convenience feature of the front view camera that issues a warning to the driver when a potential collision risk exists. The front view camera is located behind the windshield, looking out at the road ahead and detecting vehicles directly ahead, within a distance of approximately 60 meters (197 ft). The forward collision alert system operates at speeds above 40 kph (25 mph). When the system detects a vehicle in the path ahead, the green vehicle ahead indicator in the vehicle direction display is illuminated. When approaching another vehicle too rapidly, the collision alert symbol will flash in the head-up display (if equipped) or a series of red LEDs in the vehicle direction display. Simultaneously an audible alert can sound or the Safety Alert Seat pulses. The visual alert cannot be changed, but the driver can select between audible or haptic alerts in the vehicle personalization menus. The forward collision alert system can also be turned on or off through the vehicle personalization menus. See the user's manual for more detailed information on vehicle personalization.

Forward collision alert does not warn the driver of any objects that are not detected as a vehicle, like e.g. pedestrians, animals, signs, guard rails, bridges, construction barrels or other stationary or slow moving objects. The forward collision alert timing sensitivity to control the distance to the vehicle ahead can be set using the forward collision alert switch in the left steering wheel controls.

In some cases the camera may detect a vehicle that is not in the path ahead, or the system may occasionally provide unrealistic alerts. This could respond to a turning vehicle ahead, guard rails, traffic signs, or other stationary objects. This is normal operation, the vehicle does not need service. Forward collision alert may sometimes set unnecessary alerts to turning vehicles, vehicles in other lanes, objects that are not vehicles, or shadows. These alerts are normal operation and the vehicle does not need service.

The forward collision alert system is made up of the following components:

- Front view camera module
- Forward collision alert switch
- Instrument cluster / Vehicle direction display
- Radio
- Memory Seat Module and Safety Alert Seat, if equipped

Front View Camera Module

The camera detects vehicles in front of the host vehicle. The front view camera module requests the green vehicle ahead alert indicator in the vehicle direction display ON via serial data when the front view camera system has detected a vehicle in the driving path ahead. The front view camera module also communicates via serial data with the driver information center, radio, and memory seat module to request visual, and audible or haptic alerts.

Forward Collision Alert Switch

The forward collision alert switch provides an input to the front view camera module to select the alert timing sensitivity when approaching another vehicle too rapidly. The front view camera module provides a signal voltage to the normally open switch. When the switch is pressed, the signal circuit is pulled to ground, indicating to the front view camera module that the system has been requested to change the alert timing sensitivity. The first button press shows the current alert timing setting on the driver information center. With every button press, the alert timing sensitivity is changed. The current alert timing setting will be maintained until it is changed. The preset alert timing setting is displayed in the top line of the driver information center. The position of the forward collision alert switch can vary with different vehicles. For the exact position of the switch and possible user settings, please refer to the user's manual.

Instrument Cluster

The Vehicle direction display contains the green vehicle ahead indicator, which indicates to the driver that the Front View Camera system has detected a vehicle in the driving path ahead and is controlled via serial data. When approaching another vehicle too rapidly, the collision alert symbol will flash in the Vehicle direction display. The red Front collision alert display will stay continuously illuminated if the vehicle ahead remains much too close. The vehicle ahead indicator will display amber when following too close to the vehicle ahead.

Radio

The radio controls the audible alert for the forward collision alert system. If the host vehicle is approaching another vehicle too rapidly, the radio will command eight beeps as an audible alert to the driver.

Safety Alert Seat

The memory seat module controls the haptic alert provided by the seats. If the vehicle is approaching another vehicle too quickly, the memory seat module will command five pulses to both sides of the seat.

Forward Collision Alert System Driver Information Center Messages

The front view camera module can command the driver information center to display the various messages to alert the driver of a system concern or status information. For detailed information about the possible messages please refer to the user's manual.

Object Detection Description and Operation (with Haptic Signal Motor Seat)

The Active Safety Seats provide a vibration in the driver’s seat bottom cushion to alert the driver of a number of concerns. There are two motors providing the vibration and are located on the left and right sides. Depending on the alert, either the left, right or both motors will activate.

The Active Safety Seat is made up of the following components:

- Seat Memory Control Module
- Haptic Signal Motor — Driver Left Rear
- Haptic Signal Motor — Driver Right Rear

Seat Memory Control Module

The Seat Memory Control Module receives serial data messages from other modules and provides a voltage output to turn on the haptic signal motors. The Seat Memory Control Module will pulse the left, right, or both motors the number of pulses requested over serial data. The module monitors the circuits for open, short to ground, and short to voltage conditions and will set DTCs if a problem is detected. The modules that can request haptic motor operation are:

- Front and Rear Parking Assist Control Module (Front and Rear Parking Assist)
- Vehicle Camera Module (Lane Departure Warning, Forward Collision Alert)
- Side Object Sensor Modules (Rear Cross Traffic Alert)

Haptic Signal Motors — Driver Left Rear and Driver Right Rear

The motors are located in the driver’s seat bottom cushion and are positioned on the left and right sides. The motors are connected to ground and receive voltage from the Seat Memory Control Module. There are no connectors other than at the Seat Memory Control Module.

Active Safety Seat Operation

System operation can be described by the following alerts:

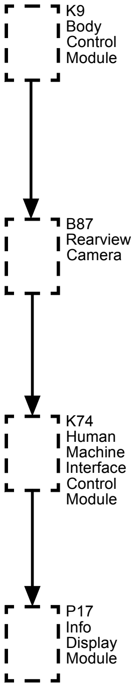
- Front and Rear Parking Assist — when an object is first detected both motors will be pulsed twice. If a potential crash is detected, both motors will be pulsed five times.
- Lane Departure Warning — when the vehicle crosses a lane marking either the left or right motor will be pulsed three times depending on which side the warning is for.
- Forward Collision Alert warning — both motors will be pulsed five times.
- Rear Cross Traffic Alert — When backing up, if rear cross traffic is detected, either the left or right motor will be pulsed three times, depending on which side the warning is for.

Active Safety Seat

The user can select between haptic or audible (beeps) alerts. This setting can be found in the vehicle personalization menus. See the user’s manual for more detailed information on vehicle personalization.

Object Detection Description and Operation (with Rearview Camera, UVC)

Rearview Camera Description and Operation Block Diagram



Rear Vision Camera System Operation

The rear vision camera system consists of:

- Rearview camera
- Body control module
- Human machine interface control module
- Info display module

When the transmission is placed into REVERSE, a 12 volt signal is sent to the rearview camera by the body control module. This signal indicates to the camera that the vehicle is in reverse and image display is requested. The rearview camera receives ignition voltage and a constant ground to power the camera. Video signal + and video signal – circuits carry the video image from the rearview camera to the human machine interface control module. The video signal is then transmitted to the info display module. Additionally, the video signal circuits are shielded to prevent any interference which may lead to a loss of video signal resolution and a degraded video image. The shield is provided a ground path by the rear vision camera.

The following conditions may cause a degraded rear vision camera image:

- Ice, snow, or mud has built up on the rear vision camera
- Dark conditions
- Extreme light conditions, such as glare from the sun or the headlights of another vehicle
- Damage to the rear of the vehicle
- Extreme high temperatures or extreme temperature changes
- Defective video signal shielding

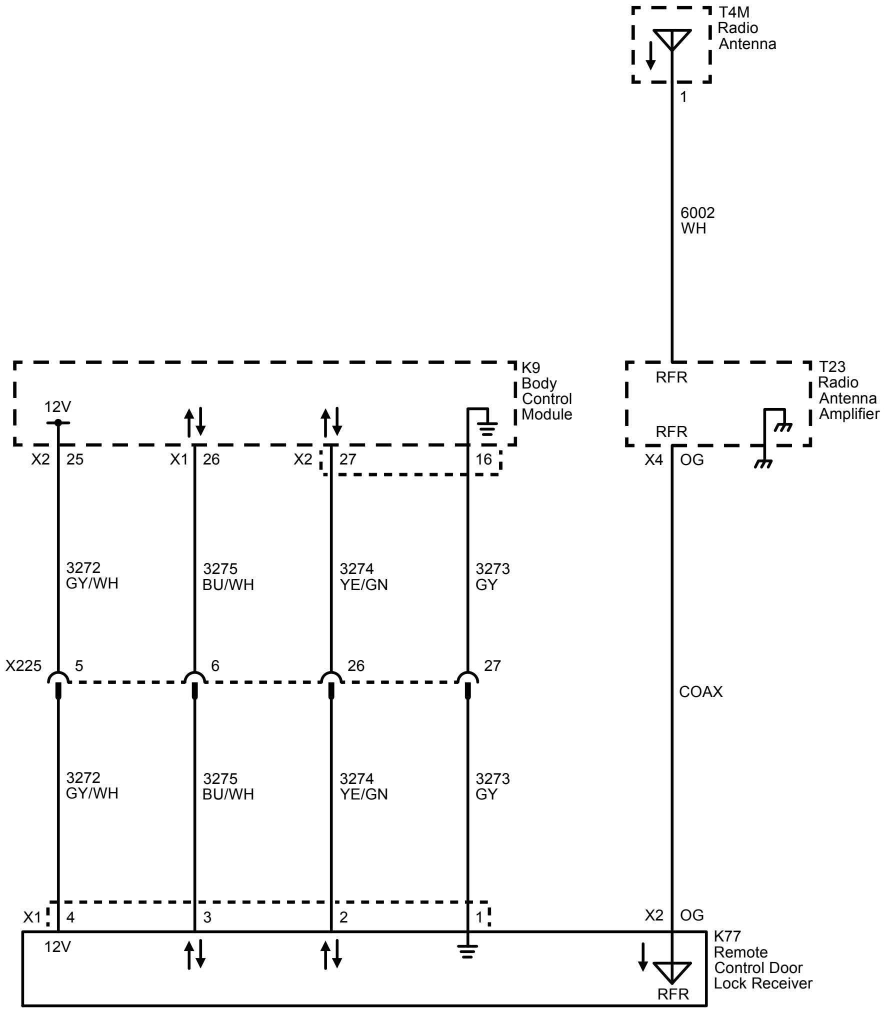
If a malfunction is detected in the system, Service Rear Vision Camera may be displayed on the infotainment display as an indicator to the customer that a problem exists that requires service.

Remote Functions

Schematic and Routing Diagrams

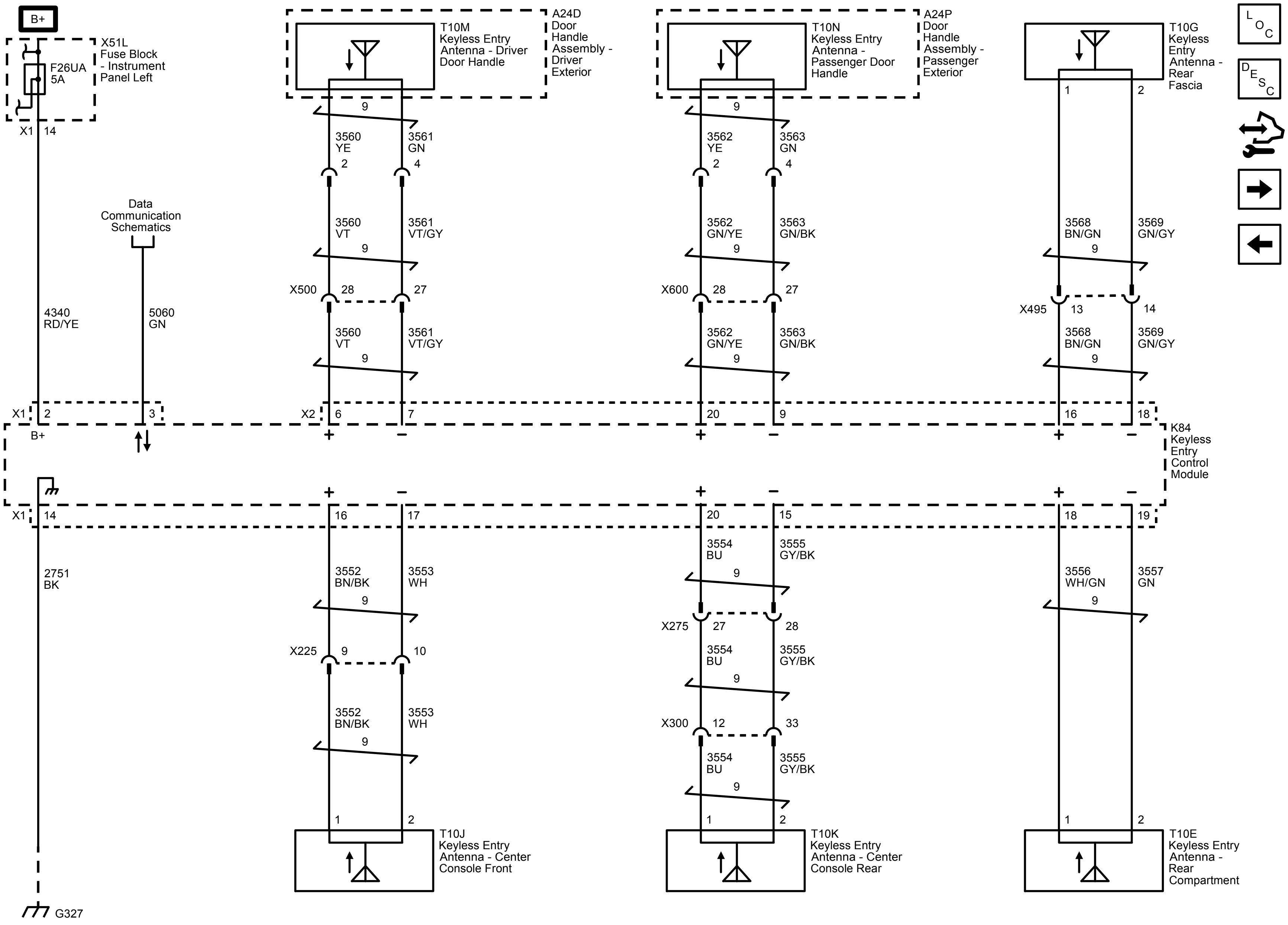
Remote Function Schematics

Keyless Entry - Active



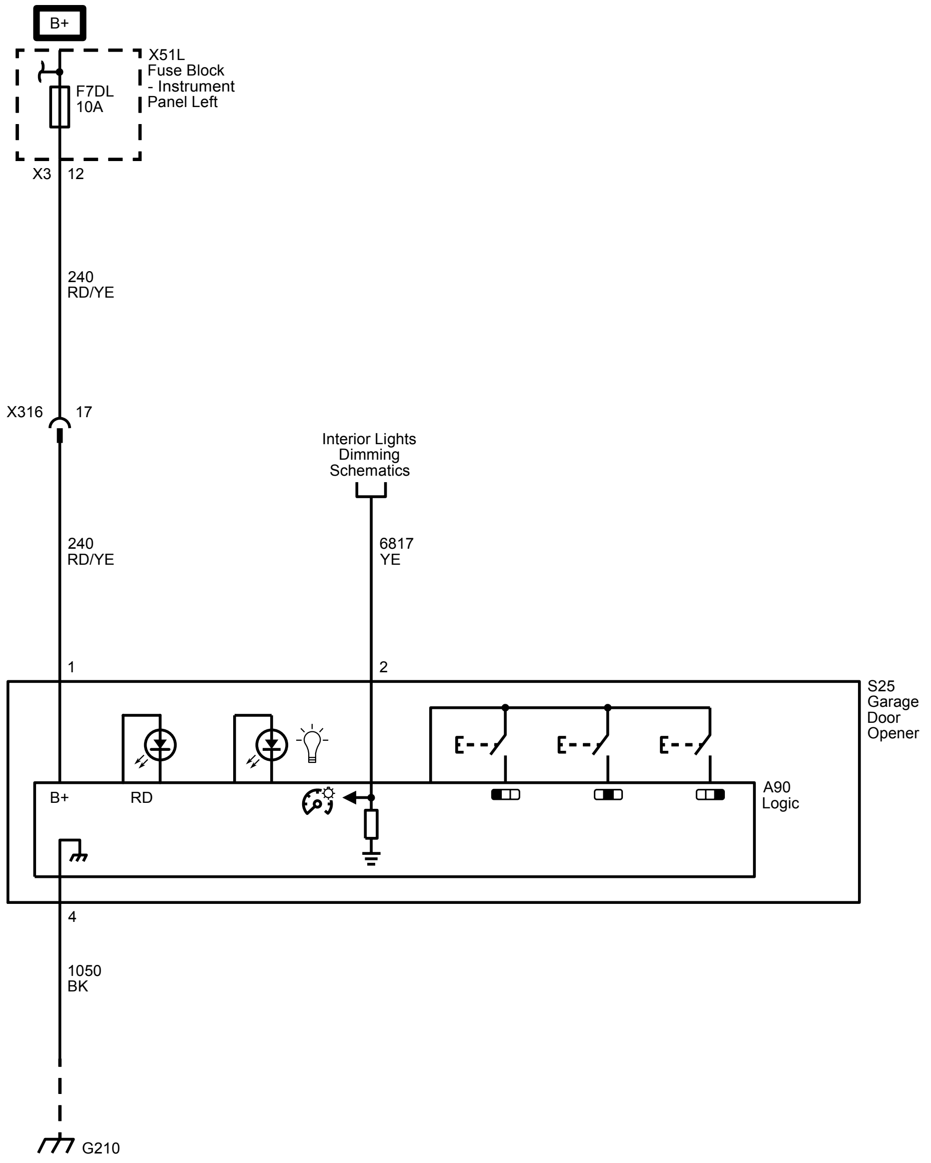
T4M
Radio
Antenna
1
6002
WH
K9
Body
Control
Module
12V
X2
25
X1
26
X2
27
16
RFR
RFR
T23
Radio
Antenna
Amplifier
X4
OG
3272
GY/WH
3275
BU/WH
3274
YE/GN
3273
GY
X225
5
6
26
27
COAX
3272
GY/WH
3275
BU/WH
3274
YE/GN
3273
GY
X1
4
3
2
1
X2
OG
12V
K77
Remote
Control Door
Lock Receiver
RFR

Keyless Entry - Passive, and Keyless Start


B+
X51L Fuse Block - Instrument Panel Left
F26UA 5A
X1 14
4340 RD/YE
Data Communication Schematics
5060 GN
X1 2
3
B+
X1 14
2751 BK
G327
T10M Keyless Entry Antenna - Driver Door Handle
A24D Door Handle Assembly - Driver Exterior
9
3560 YE
3561 GN
2
4
3560 VT
3561 VT/GY
X500 28
27
3560 VT
3561 VT/GY
X2 6
7
T10N Keyless Entry Antenna - Passenger Door Handle
A24P Door Handle Assembly - Passenger Exterior
3562 YE
3563 GN
3562 GN/YE
3563 GN/BK
X600 28
27
20
9
T10G Keyless Entry Antenna - Rear Fascia
1
2
3568 BN/GN
3569 GN/GY
X495 13
14
16
18
K84 Keyless Entry Control Module
+
−
16
17
3552 BN/BK
3553 WH
X225 9
10
20
15
3554 BU
3555 GY/BK
X275 27
28
X300 12
33
18
19
3556 WH/GN
3557 GN
T10J Keyless Entry Antenna - Center Console Front
T10K Keyless Entry Antenna - Center Console Rear
T10E Keyless Entry Antenna - Rear Compartment
LOC
DESC

Garage Door Opener (UG1)

LOC
DESC


B+
X51L
Fuse Block
- Instrument
Panel Left
F7DL
10A
X3
12
240
RD/YE
X316
17
Interior Lights
Dimming
Schematics
240
RD/YE
6817
YE
1
2
S25
Garage
Door
Opener
B+
RD
A90
Logic
4
1050
BK
G210

Description and Operation

Garage Door Opener Description and Operation

The garage door opener is fixed and rolling code capable. Rolling code is a system that allows the code that the customers receiver receives from the garage door opener to change every time the garage door opener is used within operating range of the receiver. Rolling code programming requires the customer to push a learn/program button on the garage door opener receiver at their home. This button is usually located on the receiver unit under a cover (light cover) on one end of the unit. The customer must follow the garage door opener manufacturers instructions to program/learn the receiver to accept the Universal Home Remote System as an authorized opener for their unit . When the receiver and the garage door opener are initially programmed together, a code is established and a new code is created for every new transmission. The software in the receiver recognizes the garage door opener and accepts the new code.

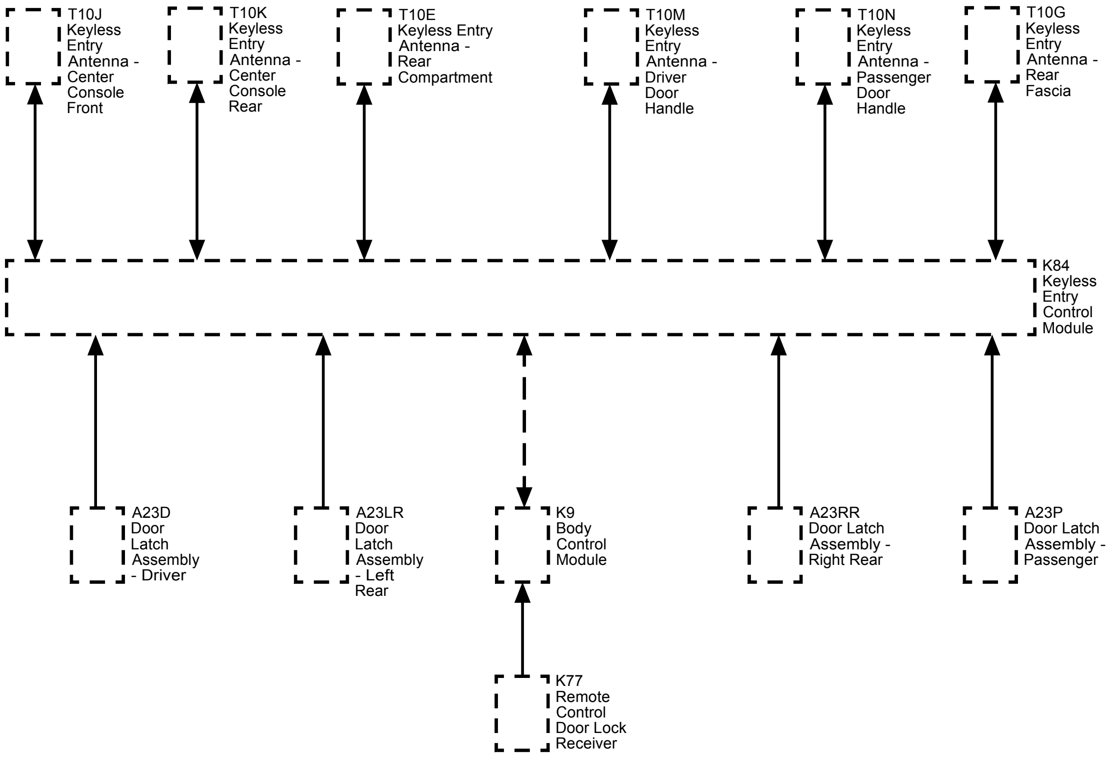
The garage door opener is compatible with most, but not all types and brands of transmitters.

The garage door opener is a transmitter operating between 288–434 MHz. The power and range of the transmitter is limited to comply with laws governing the generation of radio frequency interference. The transmitter is programmed by the user to accept the signal generated by the user's transmitters.

The garage door opener has 3 buttons that may be programmed for individual transmitter/receiver combinations to control up to 3 garage door openers, security gates, lighting systems, etc. Each button represents a transmitter code section of the transmitter, which operates separately from any other button, and may be considered a separate transmitter. Operation consists of simply pressing a button to activate the corresponding transmitter.

Keyless Entry System Description and Operation (With ATH)

Keyless Entry System Description and Operation Block Diagram


T10J Keyless Entry Antenna - Center Console Front
T10K Keyless Entry Antenna - Center Console Rear
T10E Keyless Entry Antenna - Rear Compartment
T10M Keyless Entry Antenna - Driver Door Handle
T10N Keyless Entry Antenna - Passenger Door Handle
T10G Keyless Entry Antenna - Rear Fascia
K84 Keyless Entry Control Module
A23D Door Latch Assembly - Driver
A23LR Door Latch Assembly - Left Rear
K9 Body Control Module
A23RR Door Latch Assembly - Right Rear
A23P Door Latch Assembly - Passenger
K77 Remote Control Door Lock Receiver

Keyless Entry System Description and Operation – Active

The keyless entry system is a vehicle entry device. The keyless entry system is used in conjunction with the door locks to unlock the vehicle. Keyless entry will lock/unlock a door or open the rear compartment lid when a corresponding button on the keyless entry transmitter is pressed. This is accomplished by the transmitter sending a radio frequency to the remote control door lock receiver antenna that has a direct link to the body control module (BCM). The BCM interprets the signal and activates the requested function or requests the appropriate ECU to activate the function via a serial data message. A low transmitter battery or radio frequency interference from aftermarket devices, such as 2-way radios, power inverters, computers, etc., may cause a system malfunction. High radio frequency traffic areas, such as gas stations that use pay-at-the-pump radio frequency transponders, may also cause interference that could lead to a malfunction. Keyless entry allows you to operate the following features:

- Door lock/unlock
- Rear compartment lid release
- Illuminated entry lamps
- Panic alarm/vehicle locator
- Remote vehicle start
- Automatic window express down, if equipped. Automatic window express up, if equipped

Keyless Entry System Description and Operation – Passive

Passive keyless entry allows entry to a locked vehicle without pressing any buttons on the keyless entry transmitter. The passive entry system use low frequency antennas in several different areas on the vehicle to determine the location of the transmitter. When passively opening a locked door or the rear compartment, you must have a programmed transmitter with you in your pocket, purse, or briefcase within a one meter range.

When an exterior door handle button is pressed or the rear compartment touch pad is pressed, the low frequency antenna sends out a challenge to the keyless entry transmitter. Because of the low frequency, communication range is limited. The antenna will emit the challenge in a one meter range. The transmitter must be within this range to receive the challenge. The transmitter receives this challenge and emits it's response as an RF message, which is received by the remote control door lock receiver. If the response is correct, entry into the vehicle will be allowed.

As a customer convenience feature, the keyless entry system will notify the driver if the transmitter has been left in the vehicle after exiting by chirping the vehicle horn three times. This may be turned off using vehicle personalization. Also, if the transmitter is left in the vehicle after the central door lock switch has been used to lock the vehicle, the driver door will remain unlock after exiting the vehicle. This is intended to prevent locking the transmitter in the vehicle and being unable to access it.

Keyless Entry System Description and Operation – Keyless Start

The keyless start portion of the keyless entry system allows vehicle starting, having only the transmitter as your key. The keyless start system use low frequency antennas in three different locations on the vehicle to determine the location of the transmitter. Multiple antenna are used to ensure complete coverage of the vehicle interior and rear compartment. When using the keyless start system, a programmed transmitter must be in the vehicle's interior, in the driver's pocket, purse, or briefcase.

When the ignition mode switch is pressed, the low frequency antennas emit a challenge to the keyless entry transmitter. The transmitter receives this challenge and emits it's response as an RF message, which is received by the remote control door lock receiver. If the response is correct, vehicle starting will be allowed. If RF communication is interrupted, a “No Remote Detected” message will be displayed on the DIC. In these cases, the transmitter can be placed in the transmitter pocket located in the center console, under the cupholder. The immobilizer antenna coil is located directly beneath the transmitter pocket. Placing the transmitter in the pocket will create a low powered coupling between the transmitter and immobilizer antenna, allowing communications to occur and enabling vehicle starting.

The keyless entry system has the following components:

- Keyless entry integrated key/transmitter
- Driver and front passenger door antennas (part of the door handle assembly)
- Driver and front passenger door handle switches (part of the door handle assembly)
- Rear fascia antenna
- Front console antenna
- Rear console antenna
- Trunk antenna (rear compartment)
- Body control module (BCM)
- Keyless entry control module
- Immobilizer antenna coil assembly
- Remote control door lock receiver

Keyless Entry Transmitters

By operating any of the exterior door handle buttons, a nearby transmitter is challenged by a keyless entry antenna. The transmitter will send an RF response to the remote control door lock receiver, which communicates with the BCM. The BCM will interpret this communication and either allow entry into the vehicle or deny it.

Door Antennas

The keyless entry door antennas are used to transmit low frequency communications to the keyless entry transmitters.

The keyless entry door antennas are located in the left front and right front exterior door handle bracket. The antennas are serviced as part of the door handle assembly. The antennas are controlled by the keyless entry control module. When the exterior door handle button is pressed, the respective antenna will send out a challenge to the keyless entry transmitter, which begins the passive entry communications.

Rear Fascia Antenna

The rear fascia antenna is used to transmit low frequency communication to the keyless entry transmitters for entry to rear compartment.

The rear fascia antenna is located behind the rear fascia. The antenna is controlled by the keyless entry control module. When the rear compartment touch pad is pressed, the antenna sends out a challenge to the keyless entry transmitter, which begins the passive entry communications.

Front Console Passive (Instrument Panel) Antenna

This antenna is located in the lower instrument panel near the front of the center console.

The front console antenna is used for vehicle starting functions. When the ignition mode switch is pressed, the antenna is energized or "pinged". This emits a low frequency challenge signal that is received by the keyless entry transmitter. The transmitter will then reply to this challenge with a response and, if correct, vehicle starting will occur.

Rear Console Antenna

This antenna is located in the rear of the center console.

The rear console antenna is used for vehicle starting functions. When the ignition mode switch is pressed, the antenna is energized or "pinged". This emits a low frequency challenge signal that is received by the keyless entry transmitter. The transmitter will then reply to this challenge with a response and, if correct, vehicle starting will occur.

Rear Compartment Antenna

This antenna is located in the center of the rear compartment metal floor pan, near the seatback.

The rear compartment antenna is used for vehicle starting functions. When the ignition mode switch is pressed, the antenna is energized or "pinged". This emits a low frequency challenge signal that is received by the keyless entry transmitter. The transmitter will then reply to this challenge with a response and, if correct, vehicle starting will occur.

Immobilizer Antenna Coil Assembly

The immobilizer coil assembly is located in the center console, directly beneath the transmitter pocket. If the transmitter battery is dead, weak, or the RF signal is being interrupted, the transmitter may be placed in the pocket to create a low powered coupling between the transmitter and immobilizer antenna, allowing communications to occur and enabling vehicle starting.

The immobilizer antenna coil is controlled by the BCM. The immobilizer control module is also active when learning vehicle keys.

Keyless Entry Control Module

The keyless entry control module is a multi-function module which performs the following keyless entry system functions:

- Activating vehicle antennas for passive keyless entry functions
- Activating vehicle antennas for keyless start functions
- Backup control for the ECM accessory wakeup and the run/crank relay
- If equipped, controls the electronic steering column lock
- Receiver of the exterior door handle switch inputs and door open switch (not the door ajar switch)
- Ignition mode switch monitoring

OnStar® Remote Link

A vehicle operator may have the ability to perform some of the keyless entry functions using applications on personal devices such as smart phones. Refer to CELL Link Error - Link target cell (cell ID 149754) is invalid for this publication..

Body Control Module (BCM)

The BCM is a multi-function module that performs the following functions:

- Receive and authenticate active transmitter and keyless start signals from the remote control door lock receiver
- Determines the functionality requested by the transmitter signal
- Performs the function requested by the transmitter signal

Unlock Driver Door Only – Active

Momentarily press the transmitter UNLOCK button in order to perform the following functions:

- Unlock only the driver door
- Illuminate the interior lamps for a determined length of time, or until the ignition is turned ON
- Flash the exterior lights, if enabled through personalization
- Disarm the Content Theft Deterrent (CTD) system
- Deactivate the CTD system when in the alarm mode

Unlock All Doors – Second Operation – Active

Momentarily press the transmitter UNLOCK button a second time, within 5 seconds of the first press, to perform the following function:

Unlock the remaining doors

Unlock Driver Door Only – Passive

If enabled through personalization, approach the driver door with a valid keyless entry transmitter and press the door handle button to perform the following functions:

- Unlock and open only the driver door
- Disarm the CTD system, if equipped
- Deactivate the CTD system when in the alarm mode

Unlock All Doors – Passive

Approach any non driver door (front or rear) or, if enabled through personalization, the driver door with a valid keyless entry transmitter and press the door handle button to perform the following functions:

- Unlock all vehicle doors
- Disarm the CTD system, if equipped
- Deactivate the CTD system when in the alarm mode

Lock All Doors – Active

Press the transmitter LOCK button to perform the following functions:

- Lock all vehicle doors
- Immediately turn off the interior lamps
- Flash the exterior lights, if enabled through personalization
- Chirp the horn, if enabled through personalization
- Arm the CTD system

Lock All Doors – Passive

Exit the vehicle (with ignition off) with the keyless entry transmitter to automatically perform the following functions, if equipped.

- Lock all vehicle doors after a delay
- Flash the exterior lights, if enabled through personalization
- Chirp horn, if enabled through personalization
- Arm the CTD system

When all doors are closed, they can also be locked from the exterior by pressing a front door handle button while having a valid transmitter within range.

If more than one keyless entry transmitter is within a vehicle and the Keyless Entry System detects that one or more transmitters have been left in the vehicle after vehicle is locked, any transmitter left within the vehicle will be temporarily deactivated until:

- A button on the deactivated key fob is pressed (will only activate the fob whose button is pressed)
- A passive unlock of vehicle occurs
- Change in power mode occurs

Rear Compartment Lid Release – Active

If the vehicle transaxle is in PARK or NEUTRAL and the ignition is in the OFF position, a single press of the transmitter rear compartment release button will open the rear compartment lid.

Rear Compartment Lid Release – Passive

Approach the rear of the vehicle with a valid keyless entry transmitter. Press the rear compartment lid release touch pad. The rear compartment lid will open.

If vehicle is not equipped with trunk antenna, a keyless entry transmitter left inside the trunk will allow the trunk to be reopened at any time. This feature will not allow a customer to lock the transmitter in the trunk.

If vehicle has a trunk antenna and one or more transmitters are left in the trunk or interior of the vehicle, those transmitter(s) will be deactivated when the vehicle becomes locked.

Vehicle Locator/Panic Alarm/Active

A single press of the panic button performs the following functions. Some functions may be dependent on personalization settings:

- Pulses the horn three times
- Flashes the exterior lamps three times

A press and hold of the panic button performs the following functions:

- Pulses the horn and flashes the parking lamps for 30 second or until the following conditions occur:
    - The panic button is pressed
    - The ignition switch is turned to the RUN position with a valid key

Remote Vehicle Start/Active

The remote vehicle start function allows engine starting while not in the vehicle. It also allows the vehicle HVAC system and other vehicle systems to enable, providing a comfortable vehicle upon entry. The remote vehicle start sequence begins by pressing and releasing the lock button and then pressing and holding the remote vehicle start buttons on the keyless entry transmitter. The turn signal lamps will illuminate to indicate the vehicle has received the remote start request. Each time a remote vehicle start is performed, the vehicle doors are locked, however they may then be unlocked/locked with the transmitter at any time. Only the first and second vehicle transmitters are able to control the remote vehicle start function. Any additional remote transmitters programmed to the vehicle will perform all other remote functions. Once activated, the engine is allowed to run for 10 minutes. The remote vehicle start time may be extended by an additional 10 minutes by again pressing and releasing the lock button and then pressing and holding the remote vehicle start buttons on the transmitter. This feature is called a remote vehicle start continue and allows a maximum of 20 minutes of engine running. If the remote vehicle start continue is performed at 7 minutes into the initial 10 minute time-out, a total of 17 minutes of engine running would occur. The remote vehicle start event may be suspended at any time by pressing only the remote vehicle start button on the transmitter or by entering the vehicle and turning ON the hazard lamps.

In between ignition cycles, only two remote vehicle start events may occur or be attempted. Once two events or attempts have been made, future remote vehicle start events will be suspended until the vehicle is started using the ignition.

Enable/Disable Remote Vehicle Start/Active

Using the driver information center, remote vehicle start may be enabled or disabled as a part of vehicle personalization. Refer to the vehicle owners manual for more information.

Hood Ajar Switch/Active

The hood switch provides status of the hood to the BCM for remote vehicle start purposes. The switch is integrated into the hood latch assembly. The hood ajar switch provides 2 separate inputs to the BCM. These separate inputs allow the BCM to actively monitor for a hood ajar switch fault.

Remote Vehicle Start Circuit Description/Active

The BCM receives a signal from the keyless entry transmitter indicating a remote vehicle start request. The BCM uses the following inputs to verify the system is ready for a remote vehicle start event:

- Vehicle is not in valet mode
- All vehicle doors are closed
- Rear compartment lid is not ajar
- The hood is closed
- The doors are locked

- The hazard switch is OFF
- Battery reconnect has not occurred
- Vehicle power mode is correct

When the BCM determines all conditions meet those required for a remote vehicle start event, a message is sent via serial data to the ECM. The ECM relies on the remote vehicle start message from the BCM to enable remote vehicle start when the crank request signal is received. If the ECM does not receive a valid remote vehicle start message, it will not ground the control circuit of the crank relay and start the engine. While the ECM is in remote vehicle start mode it will cut fuel to the engine if any of the following additional conditions occur:

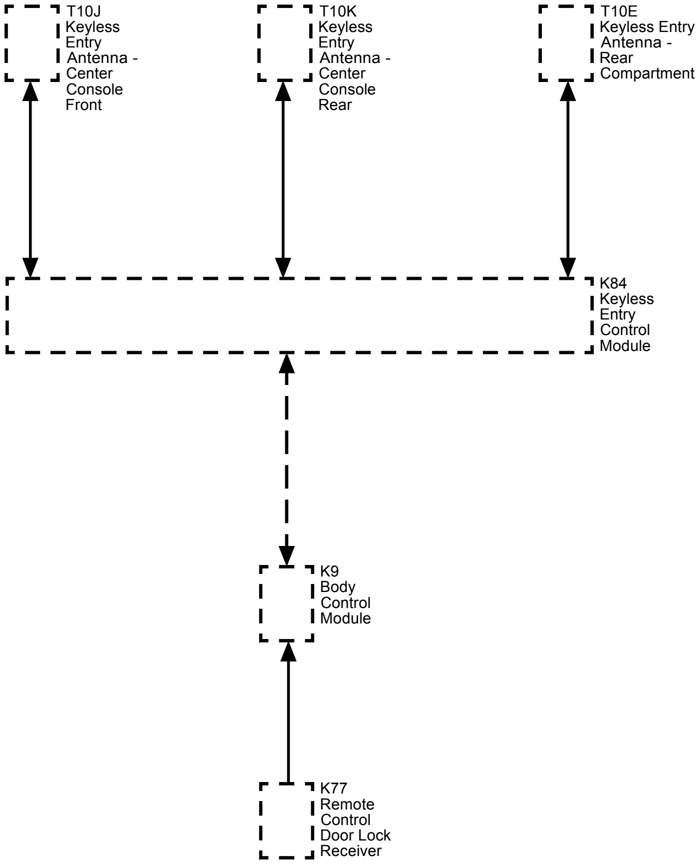
- Vehicle speed is greater than 0
- Transmission is not in P
- Excessive engine coolant temperature
- Low oil pressure
- The malfunction indicator lamp (MIL) is commanded ON
- Engine crank time is greater than 30 seconds
- Excessive engine speed
- Accelerator pedal position too high
- Remote start timer equals 0
- Immobilizer system indicates a theft attempt

Keyless Entry Personalization

Vehicle lock/unlock functions and remote vehicle start settings may be personalized for the vehicle. For functional descriptions and programming instructions, refer to the vehicle owners manual.

Keyless Entry System Description and Operation (Without ATH)

Keyless Entry System Description and Operation Block Diagram


T10J Keyless Entry Antenna - Center Console Front
T10K Keyless Entry Antenna - Center Console Rear
T10E Keyless Entry Antenna - Rear Compartment
K84 Keyless Entry Control Module
K9 Body Control Module
K77 Remote Control Door Lock Receiver

Keyless Entry System Description and Operation

The keyless entry system is a vehicle entry device. The keyless entry system is used in conjunction with the door locks to unlock the vehicle. Keyless entry will lock/unlock the vehicle doors or open the rear compartment lid when a corresponding button on the keyless entry transmitter is pressed. This is accomplished by the transmitter sending a radio frequency to the remote control door lock receiver antenna that has a direct link to the body control module (BCM). The BCM interprets the signal and activates the requested function or requests the appropriate control module to activate the function via a serial data message. A low transmitter battery or radio frequency interference from aftermarket devices, such as 2-way radios, power inverters, computers, etc., may cause a system malfunction. High radio frequency traffic areas, such as gas stations that use pay-at-the-pump radio frequency transponders, may also cause interference that could lead to a malfunction. Keyless entry allows you to operate the following features:

- Door lock/unlock
- Liftgate lock/unlock
- Power liftgate, if equipped
- Illuminated entry lamps
- Panic alarm/vehicle locator
- Remote vehicle start

Keyless Entry System Description and Operation – Keyless Start

The keyless start portion of the keyless entry system allows vehicle starting, having only the transmitter as your key. The keyless start system use low frequency antennas in three different locations on the vehicle to determine the location of the transmitter. Multiple antennas are used to ensure complete coverage of the vehicle interior and rear compartment. When using the keyless start system, a programmed transmitter must be in the vehicle's interior, in the driver's pocket, purse, or briefcase.

When the ignition mode switch is pressed, the low frequency antennas emit a challenge to the keyless entry transmitter. The transmitter receives this challenge and emits it's response as an RF message, which is received by the remote control door lock receiver. If the response is correct, vehicle starting will be allowed. If RF communication is interrupted, a “No Remote Detected” message will be displayed on the DIC. In these cases, the transmitter can be placed in the transmitter pocket located in the center console, under the storage tray. The immobilizer antenna coil is located directly beneath the transmitter pocket. Placing the transmitter in the pocket will create a low powered coupling between the transmitter and immobilizer antenna, allowing communications to occur and enabling vehicle starting.

The keyless entry system has the following components:

- Keyless entry transmitter
- Front console antenna
- Rear console antenna
- Rear compartment antenna
- Body control module (BCM)
- Keyless entry control module
- Immobilizer antenna coil assembly
- Remote control door lock receiver

Keyless Entry Transmitter

The keyless entry transmitters are used to perform various entry functions while away from the immediate area of the vehicle. Keyless entry functions may work at up to 20 m (65 ft) away from the vehicle. Ambient conditions may affect the performance of the keyless entry transmitter and reduce the range at which keyless entry functions operate. Up to eight transmitters may be programmed to a single vehicle.

When pressing the ignition mode switch to change power mode or start the vehicle, a nearby transmitter is challenged by a passive keyless entry antenna. The transmitter will send an RF response to the remote control door lock receiver, which communicates with the BCM. The BCM will interpret this communication and if the transmitter response is valid, allow the vehicle to change power mode or start the vehicle.

Front Console Passive (Instrument Panel) Antenna

This antenna is located in the lower instrument panel near the front of the center console.

The front console antenna is used for vehicle starting functions. When the ignition mode switch is pressed, the antenna is energized or "pinged". This emits a low frequency challenge signal that is received by the keyless entry transmitter. The transmitter will then reply to this challenge with a response and, if correct, vehicle starting will occur.

Rear Console Antenna

This antenna is located in the rear of the center console.

The rear console antenna is used for vehicle starting functions. When the ignition mode switch is pressed, the antenna is energized or "pinged". This emits a low frequency challenge signal that is received by the keyless entry transmitter. The transmitter will then reply to this challenge with a response and, if correct, vehicle starting will occur.

Rear Compartment Antenna

This antenna is located in the center of the rear compartment metal floor pan, near the seatback.

The rear compartment antenna is used for vehicle starting functions. When the ignition mode switch is pressed, the antenna is energized or "pinged". This emits a low frequency challenge signal that is received by the keyless entry transmitter. The transmitter will then reply to this challenge with a response and, if correct, vehicle starting will occur.

Remote Control Door Lock Receiver

The remote control door lock receiver is located on the vehicle windshield, directly in front of the inside rearview mirror.

The remote control door lock receiver is control by and directly communicates with the body control module (BCM). When the transmitter receives a low frequency challenge from an antenna, it responds with an RF message. This RF message is received by the remote control door lock receiver and communicated to the BCM. If the RF message is a valid response to the low frequency challenge, vehicle starting will be allowed.

Immobilizer Antenna Coil Assembly

The keyless entry immobilizer coil assembly is located in the center console, directly beneath the transmitter pocket. If the transmitter battery is dead, weak, or the RF signal is being interrupted, the transmitter may be placed in the pocket to create a low powered coupling between the transmitter and immobilizer antenna, allowing communications to occur and enabling vehicle starting.

The immobilizer antenna coil is controlled by the BCM. The immobilizer control module is also active when learning transmitters.

Keyless Entry Control Module

The keyless entry control module is a multi-function module which performs the following keyless entry system functions:

- Activating vehicle antennas for keyless start functions
- Backup control for the ECM accessory wakeup and the run/crank relay
- Redundant power moding, in addition to the BCM
- Ignition mode switch monitoring

OnStar® Remote Link

A vehicle operator may have the ability to perform some of the keyless entry functions using applications on personal devices such as smart phones. Refer to CELL Link Error - Link target cell (cell ID 149754) is invalid for this publication..

Body Control Module (BCM)

The BCM is a multi-function module that performs the following functions:

- Receive and authenticate active transmitter and keyless start signals from the remote control door lock receiver
- Determines the functionality requested by the transmitter signal

- Performs the function requested by the transmitter signal

Unlock Driver Door Only

Momentarily press the transmitter UNLOCK button in order to perform the following functions:

- Unlock only the driver door
- Illuminate the interior lamps for a determined length of time, or until the ignition is turned ON
- Flash the exterior lights, if enabled through personalization
- Disarm the content theft deterrent system
- Deactivate the content theft deterrent system when in the alarm mode

Unlock All Doors – Second Operation

Momentarily press the transmitter UNLOCK button a second time, within 5 seconds of the first press, to perform the following function:

- Unlock the remaining doors and liftgate

Lock All Doors

Press the transmitter LOCK button to perform the following functions:

- Lock all vehicle doors and the liftgate
- Immediately turn off the interior lamps
- Flash the exterior lights, if enabled through personalization
- Chirp the horn, if enabled through personalization
- Arm the content theft deterrent system

Power Liftgate, if equipped

Press and hold the power liftgate button to perform the following functions:

- Open or close the liftgate using the power liftgate function
- Flash the tail lamps
- Sound the interior power liftgate chime

Vehicle Locator/Panic Alarm/Active

A single press of the panic button performs the following functions. Some functions may be dependent on personalization settings:

- Pulses the horn three times
- Flashes the exterior lamps three times

A press and hold of the panic button performs the following functions:

- A press and hold of the panic button performs the following functions:
- Pulses the horn and flashes the parking lamps for 30 second or until the following conditions occur:
  - The panic button is pressed
  - The ignition mode is turned to the RUN position with a valid keyless entry transmitter

Remote Vehicle Start/Active

The remote vehicle start function allows engine starting while not in the vehicle. It also allows the vehicle HVAC system and other vehicle systems to enable, providing a comfortable vehicle upon entry. The remote vehicle start sequence begins by pressing and releasing the lock button and then pressing and holding the remote vehicle start buttons on the keyless entry transmitter. The turn signal lamps will illuminate to indicate the vehicle has received the remote start request. Each time a remote vehicle start is performed, the vehicle doors are locked, however they may then be unlocked/locked with the transmitter at any time. Only the first and second vehicle transmitters are able to control the remote vehicle start function. Any additional remote transmitters programmed to the vehicle will perform all other remote functions. Once activated, the engine is allowed to run for 10 minutes. The remote vehicle start time may be extended by an additional 10 minutes by again pressing and releasing the lock button and then pressing and holding the remote vehicle start buttons on the transmitter. This feature is called a remote vehicle start continue and allows a maximum of 20 minutes of engine running. If the remote vehicle start continue is performed at 7 minutes into the initial 10 minute time-out, a total of 17 minutes of engine running would occur. The remote vehicle start event may be suspended at any time by pressing only the remote vehicle start button on the transmitter or by entering the vehicle and turning ON the hazard lamps.

In between ignition cycles, only two remote vehicle start events may occur or be attempted. Once two events or attempts have been made, future remote vehicle start events will be suspended until the vehicle is started using the ignition.

Enable/Disable Remote Vehicle Start/Active

On some vehicles, remote vehicle start may be enabled or disabled as a part of vehicle personalization by using the driver information center controls. Refer to the vehicle owners manual for more information.

Hood Ajar Switch/Active

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Remote Vehicle Start Circuit Description/Active

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- Rear compartment lid is not ajar
- The hood is closed
- The doors are locked
- The hazard switch is OFF
- Battery reconnect has not occurred
- Vehicle power mode is correct

When the BCM determines all conditions meet those required for a remote vehicle start event, a message is sent via serial data to the ECM. The ECM relies on the remote vehicle start message from the BCM to enable remote vehicle start when the crank request signal is received. If the ECM does not receive a valid remote vehicle start message, it will not ground the control circuit of the crank relay and start the engine. While the ECM is in remote vehicle start mode it will cut fuel to the engine if any of the following additional conditions occur:

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- Transmission is not in P
- Excessive engine coolant temperature
- Low oil pressure
- The malfunction indicator lamp (MIL) is commanded ON
- Engine crank time is greater than 30 seconds
- Excessive engine speed
- Accelerator pedal position too high
- Remote start timer equals 0
- Immobilizer system indicates a theft attempt

Keyless Entry Personalization

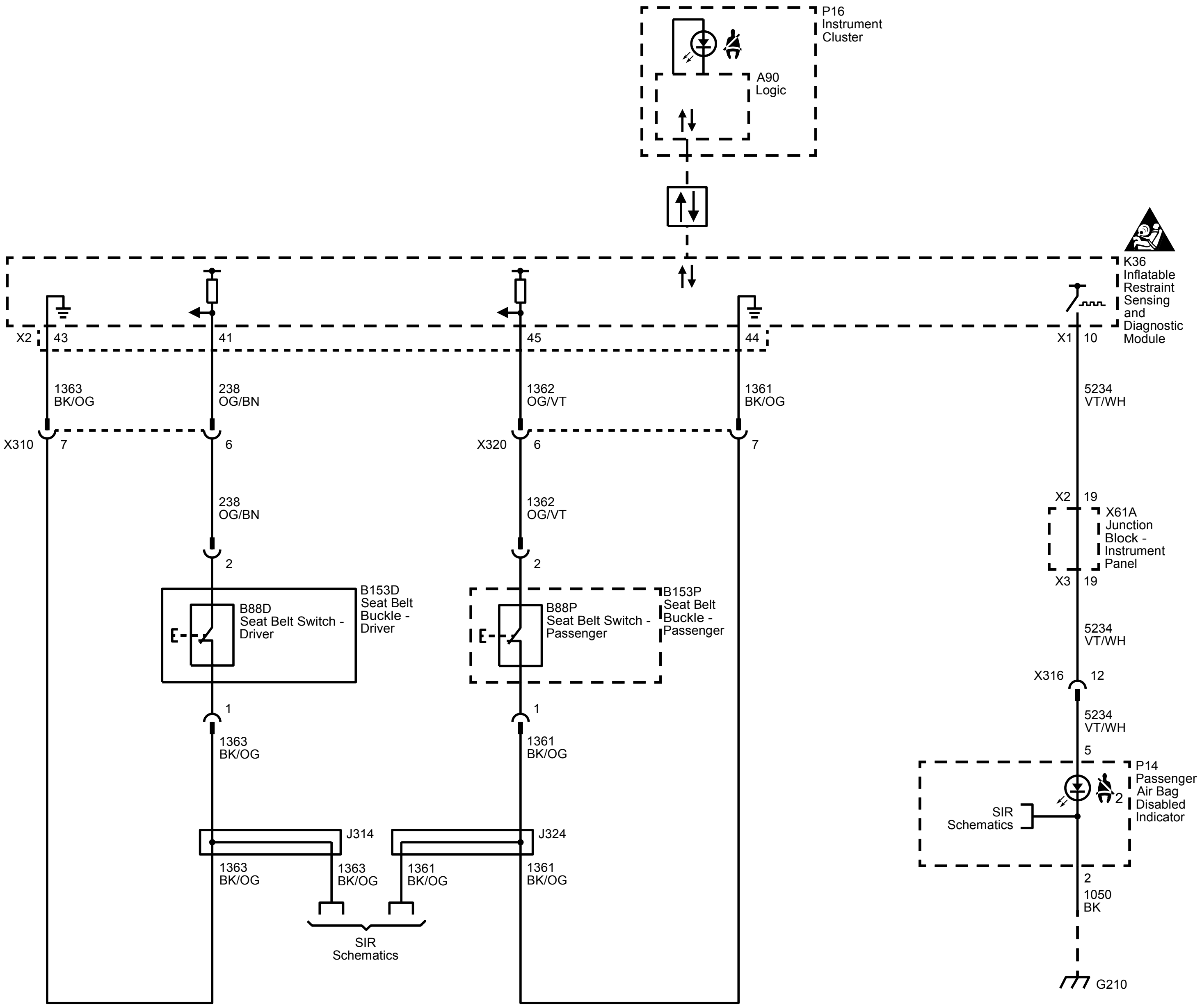
Vehicle lock/unlock functions and remote vehicle start settings may be personalized for the vehicle. For functional descriptions and programming instructions, refer to the vehicle owners manual.

Seat Belts

Schematic and Routing Diagrams

Seat Belt Schematics

Seat Belts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Instrument
Cluster
A90
Logic
K36
Inflatable
Restraint
Sensing
and
Diagnostic
Module
X2
43
41
45
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X1
10
1363
BK/OG
238
OG/BN
1362
OG/VT
1361
BK/OG
5234
VT/WH
X310
7
6
X320
6
7
238
OG/BN
1362
OG/VT
X2
19
X61A
Junction
Block -
Instrument
Panel
X3
19
2
2
B153D
Seat Belt
Buckle -
Driver
B88D
Seat Belt Switch -
Driver
B153P
Seat Belt
Buckle -
Passenger
B88P
Seat Belt Switch -
Passenger
5234
VT/WH
X316
12
1
1
5234
VT/WH
1363
BK/OG
1361
BK/OG
5
P14
Passenger
Air Bag
Disabled
Indicator
SIR
Schematics
2
J314
J324
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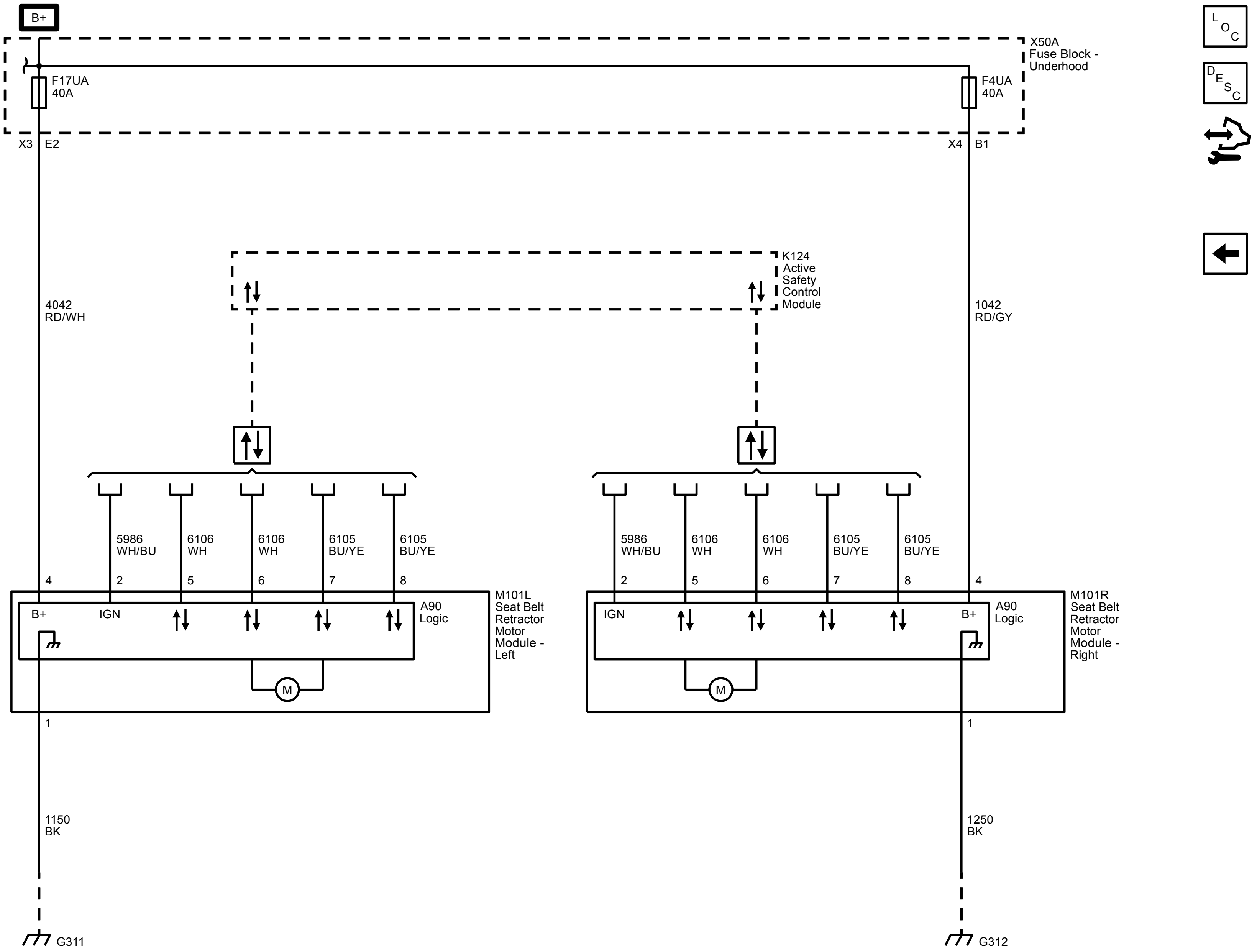
BK/OG
1363
BK/OG
1361
BK/OG
1361
BK/OG
2
1050
BK
SIR
Schematics
G210


B+
X50A
Fuse Block -
Underhood
F17UA
40A
F4UA
40A
X3
E2
X4
B1
K124
Active
Safety
Control
Module
4042
RD/WH
1042
RD/GY
5986
WH/BU
6106
WH
6106
WH
6105
BU/YE
6105
BU/YE
4
2
5
6
7
8
B+
IGN
A90
Logic
M101L
Seat Belt
Retractor
Motor
Module -
Left
M
1
1150
BK
G311
5986
WH/BU
6106
WH
6106
WH
6105
BU/YE
6105
BU/YE
2
5
6
7
8
4
IGN
B+
A90
Logic
M101R
Seat Belt
Retractor
Motor
Module -
Right
M
1
1250
BK
G312
L O C
D E S C

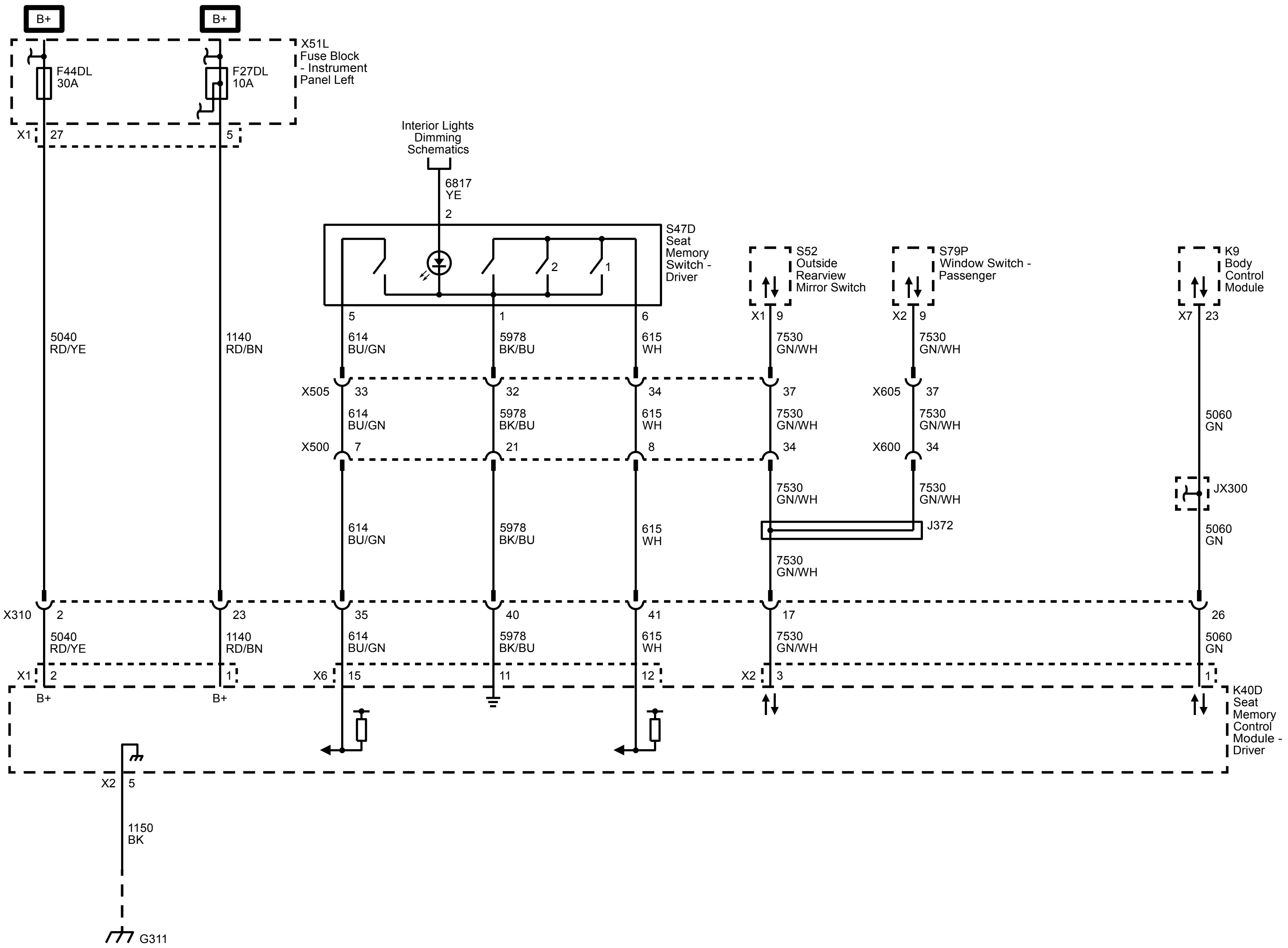
Seats

Power Seats

Schematic and Routing Diagrams

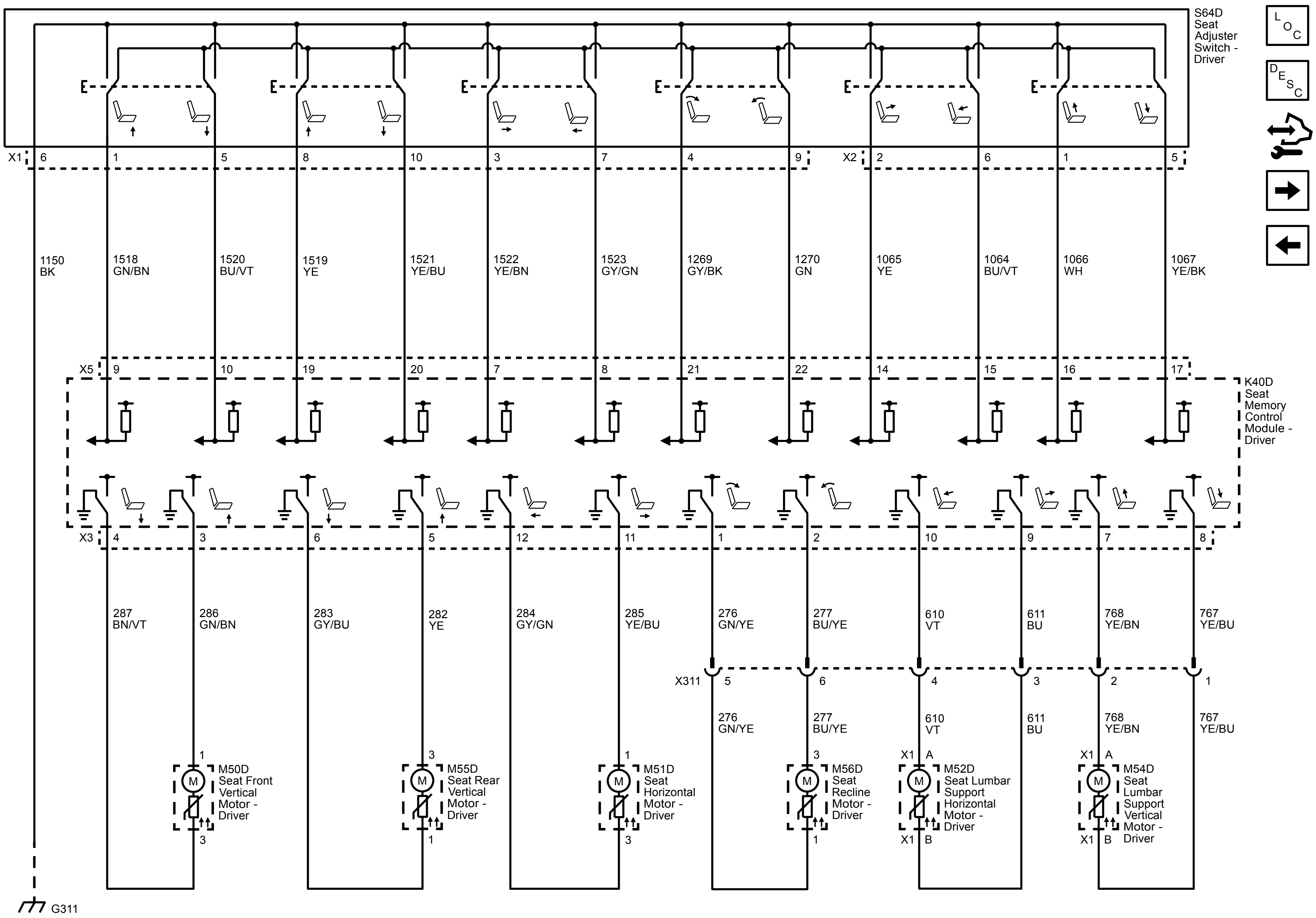
Driver Seat Schematics

Power, Ground, Serial Data and Memory Switch (A45)

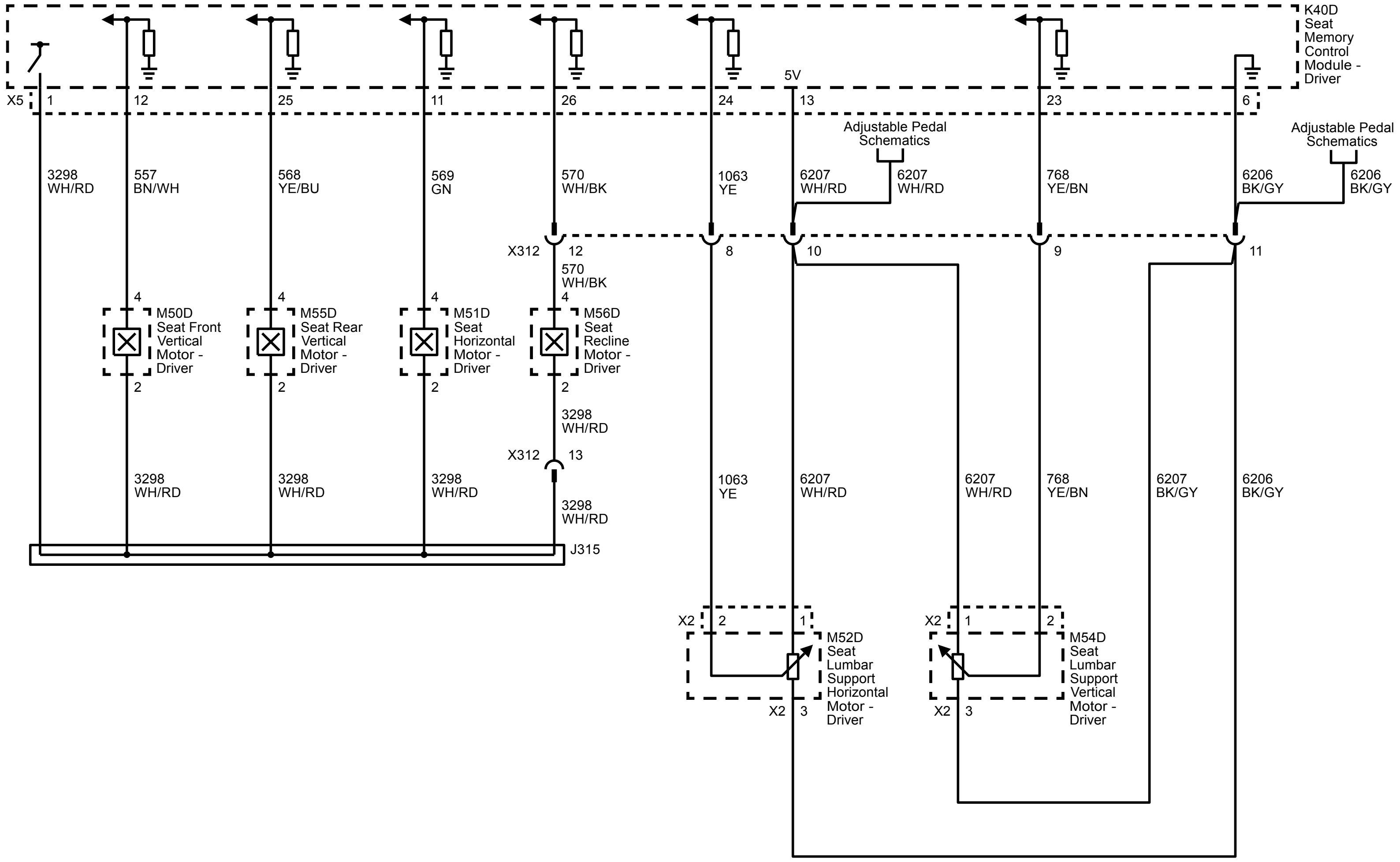


B+
B+
F44DL
30A
F27DL
10A
X51L
Fuse Block
- Instrument
Panel Left
X1
27
5
Interior Lights
Dimming
Schematics
6817
YE
2
S47D
Seat
Memory
Switch -
Driver
2
1
S52
Outside
Rearview
Mirror Switch
S79P
Window Switch -
Passenger
K9
Body
Control
Module
5
1
6
X1
9
X2
9
X7
23
5040
RD/YE
1140
RD/BN
614
BU/GN
5978
BK/BU
615
WH
7530
GN/WH
7530
GN/WH
X505
33
32
34
37
X605
37
614
BU/GN
5978
BK/BU
615
WH
7530
GN/WH
7530
GN/WH
5060
GN
X500
7
21
8
34
X600
34
7530
GN/WH
7530
GN/WH
JX300
614
BU/GN
5978
BK/BU
615
WH
J372
5060
GN
7530
GN/WH
X310
2
23
35
40
41
17
26
5040
RD/YE
1140
RD/BN
614
BU/GN
5978
BK/BU
615
WH
7530
GN/WH
5060
GN
X1
2
1
X6
15
11
12
X2
3
1
B+
B+
K40D
Seat
Memory
Control
Module -
Driver
X2
5
1150
BK
G311

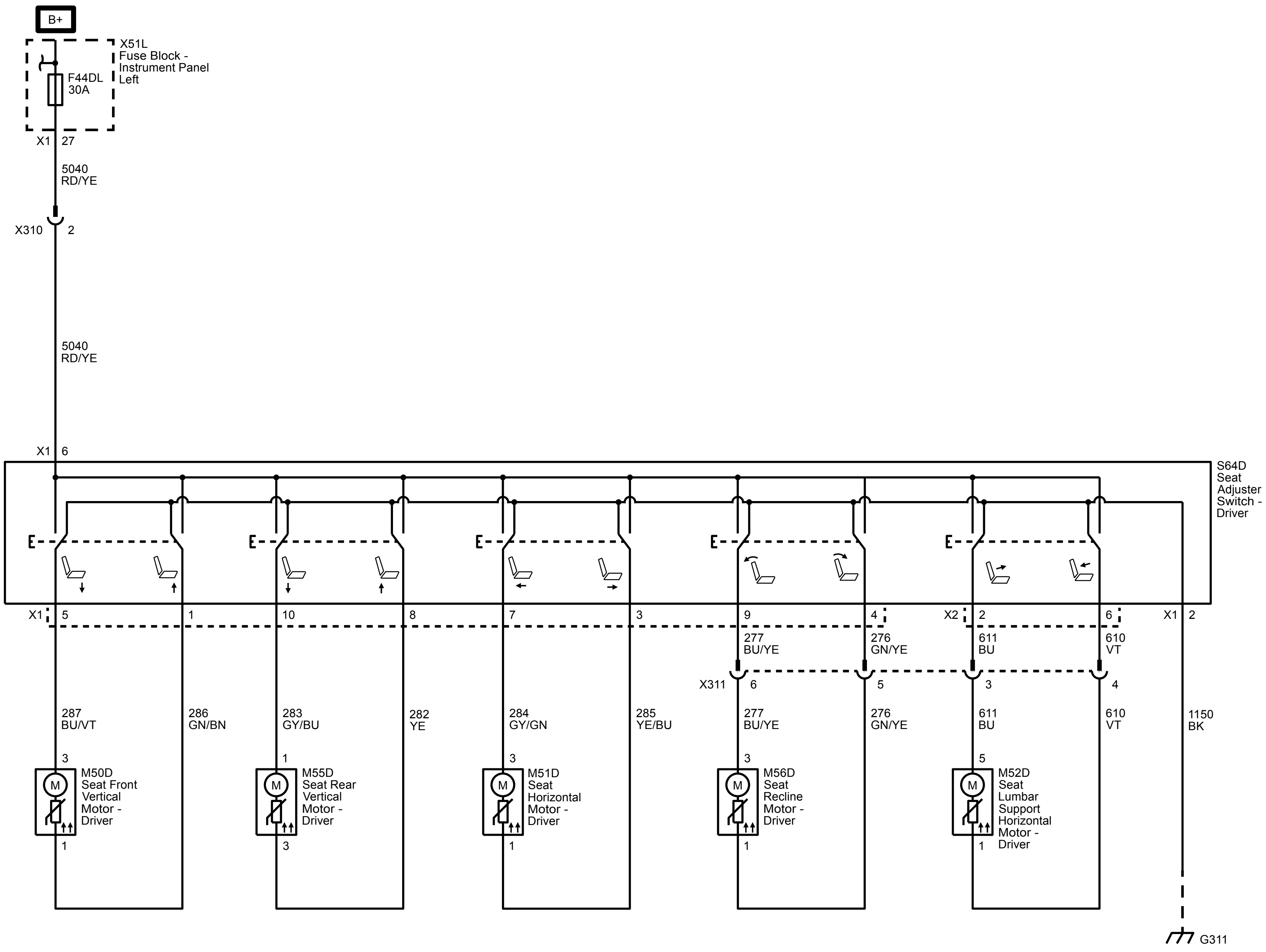
Controls and Motors (A45)


S64D Seat Adjuster Switch - Driver
X1
6
1
5
8
10
3
7
4
9
X2
2
6
1
5
1150 BK
1518 GN/BN
1520 BU/VT
1519 YE
1521 YE/BU
1522 YE/BN
1523 GY/GN
1269 GY/BK
1270 GN
1065 YE
1064 BU/VT
1066 WH
1067 YE/BK
X5
9
10
19
20
7
8
21
22
14
15
16
17
K40D Seat Memory Control Module - Driver
X3
4
3
6
5
12
11
1
2
10
9
7
8
287 BN/VT
286 GN/BN
283 GY/BU
282 YE
284 GY/GN
285 YE/BU
276 GN/YE
277 BU/YE
610 VT
611 BU
768 YE/BN
767 YE/BU
X311
5
6
4
3
2
1
276 GN/YE
277 BU/YE
610 VT
611 BU
768 YE/BN
767 YE/BU
1
M
M50D Seat Front Vertical Motor - Driver
3
3
M
M55D Seat Rear Vertical Motor - Driver
1
1
M
M51D Seat Horizontal Motor - Driver
3
3
M
M56D Seat Recline Motor - Driver
1
X1 A
M
M52D Seat Lumbar Support Horizontal Motor - Driver
X1 B
X1 A
M
M54D Seat Lumbar Support Vertical Motor - Driver
X1 B
G311
LOC
DESC

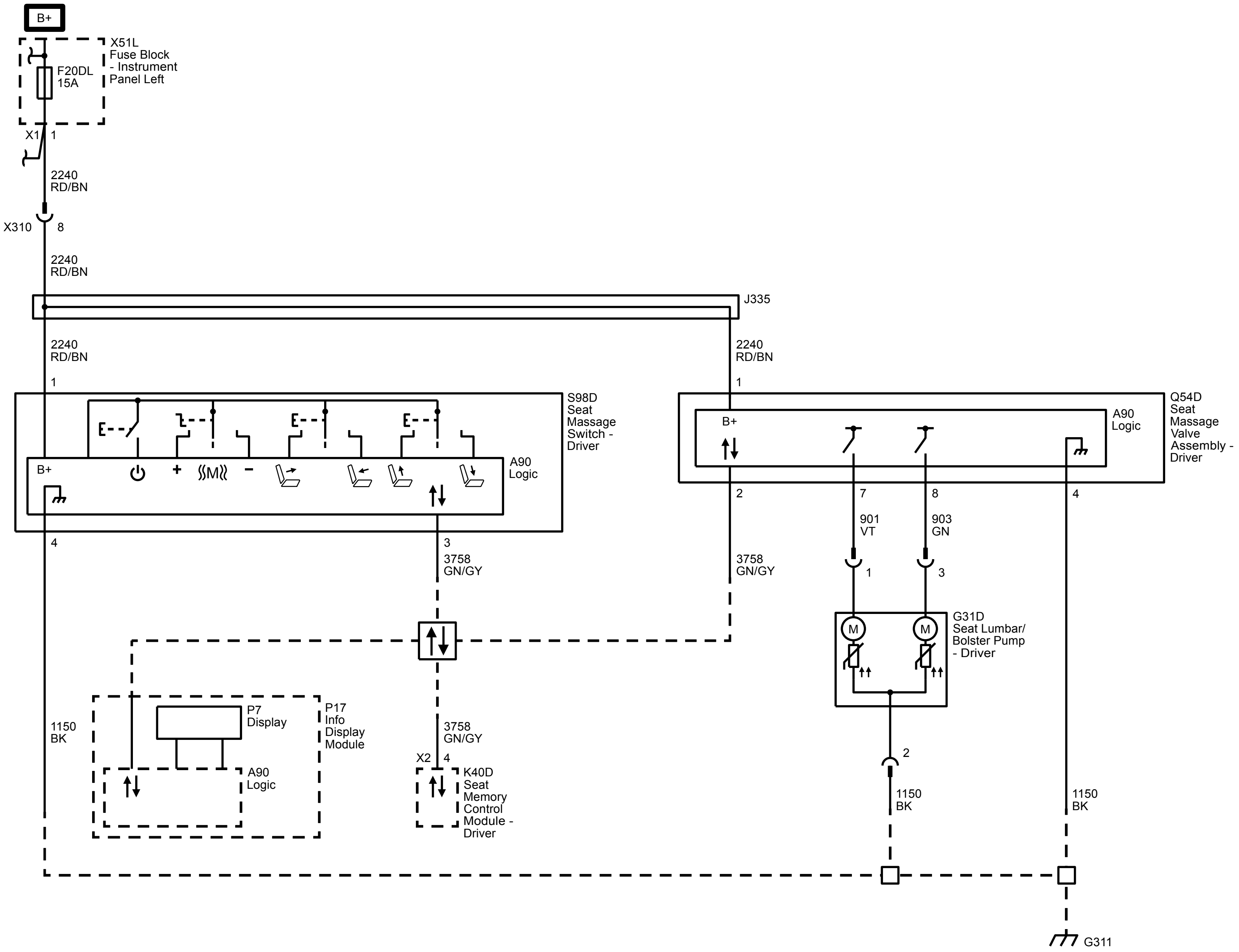
Position Sensors (A45)


K40D Seat Memory Control Module - Driver
X5
1
12
25
11
26
24
5V
13
23
6
Adjustable Pedal Schematics
Adjustable Pedal Schematics
3298 WH/RD
557 BN/WH
568 YE/BU
569 GN
570 WH/BK
1063 YE
6207 WH/RD
6207 WH/RD
768 YE/BN
6206 BK/GY
6206 BK/GY
X312
12
8
10
9
11
570 WH/BK
4
4
4
4
M50D Seat Front Vertical Motor - Driver
M55D Seat Rear Vertical Motor - Driver
M51D Seat Horizontal Motor - Driver
M56D Seat Recline Motor - Driver
2
2
2
2
3298 WH/RD
X312
13
3298 WH/RD
3298 WH/RD
3298 WH/RD
3298 WH/RD
1063 YE
6207 WH/RD
6207 WH/RD
768 YE/BN
6207 BK/GY
6206 BK/GY
J315
X2
2
1
M52D Seat Lumbar Support Horizontal Motor - Driver
X2
3
X2
1
2
M54D Seat Lumbar Support Vertical Motor - Driver
X2
3

Power Seat (-A45)

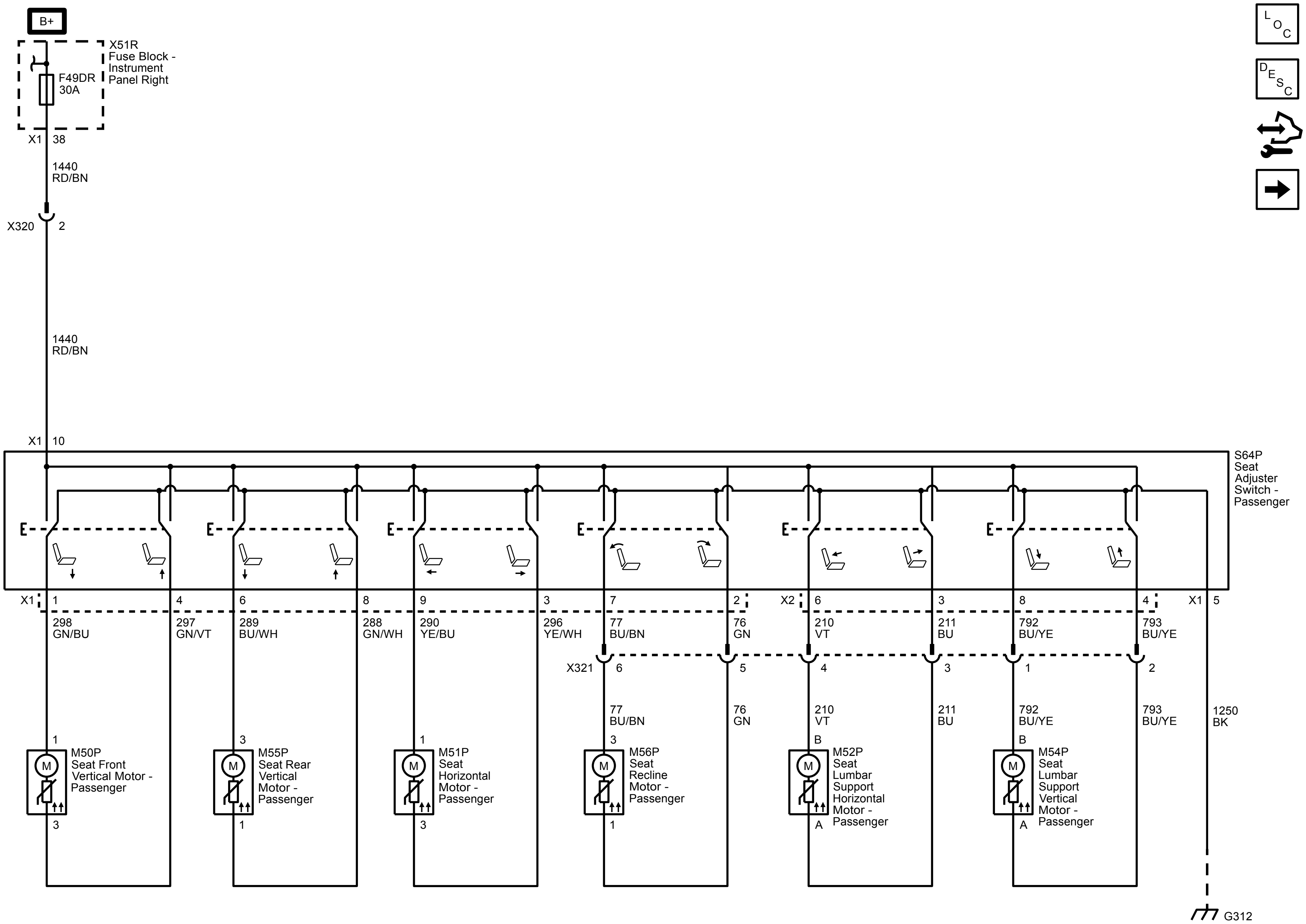

B+
X51L
Fuse Block -
Instrument Panel
Left
F44DL
30A
X1
27
5040
RD/YE
X310
2
5040
RD/YE
X1
6
S64D
Seat
Adjuster
Switch -
Driver
X1
5
1
10
8
7
3
9
4
X2
2
6
X1
2
277
BU/YE
276
GN/YE
611
BU
610
VT
X311
6
5
3
4
287
BU/VT
286
GN/BN
283
GY/BU
282
YE
284
GY/GN
285
YE/BU
277
BU/YE
276
GN/YE
611
BU
610
VT
1150
BK
3
M50D
Seat Front
Vertical
Motor -
Driver
1
1
M55D
Seat Rear
Vertical
Motor -
Driver
3
3
M51D
Seat
Horizontal
Motor -
Driver
1
3
M56D
Seat
Recline
Motor -
Driver
1
5
M52D
Seat
Lumbar
Support
Horizontal
Motor -
Driver
1
M
G311

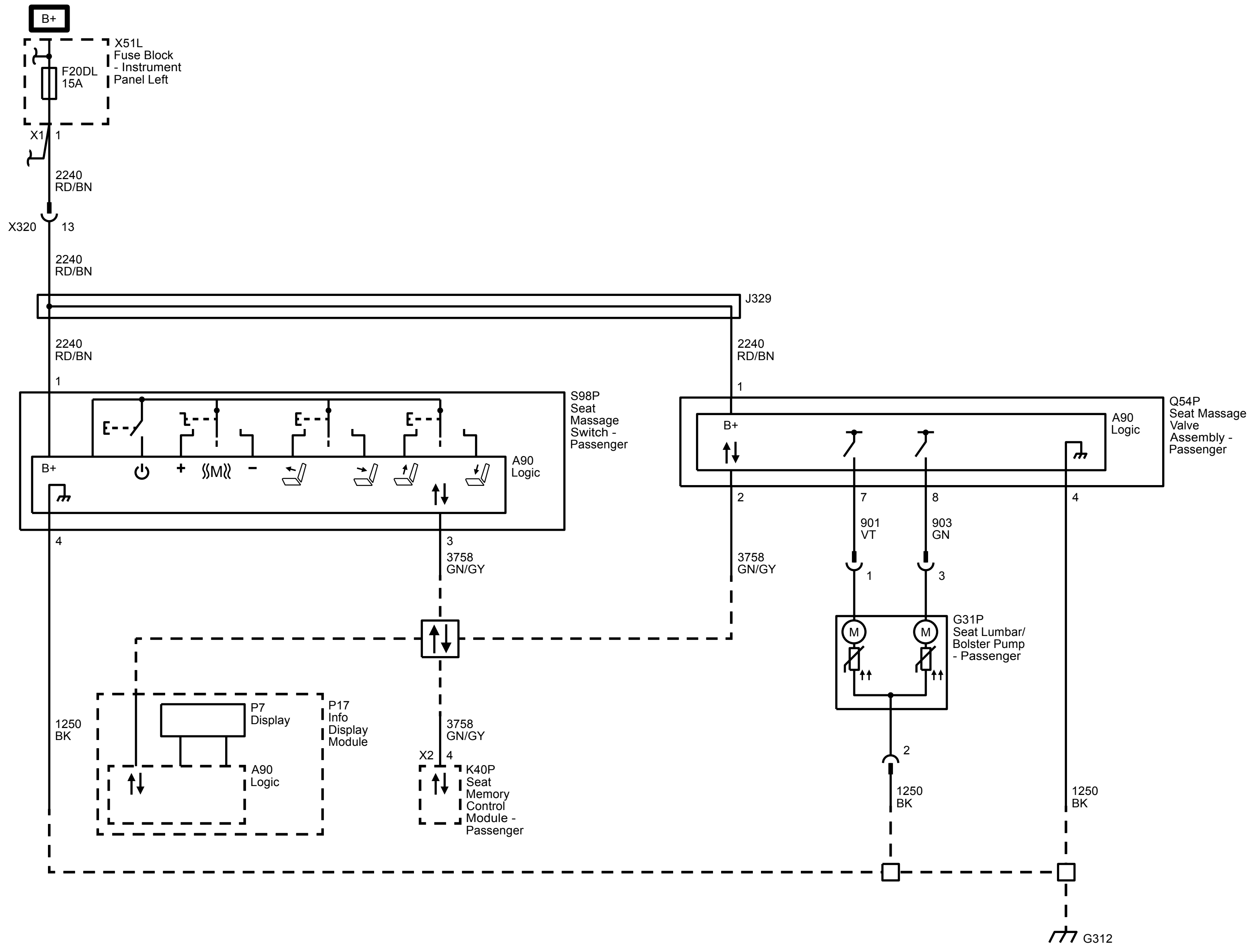
Lumbar and Massage (ULT)


B+
X51L
Fuse Block
- Instrument
Panel Left
F20DL
15A
X1
1
2240
RD/BN
X310
8
2240
RD/BN
J335
2240
RD/BN
1
2240
RD/BN
1
S98D
Seat
Massage
Switch -
Driver
B+
A90
Logic
+
M
–
4
3
3758
GN/GY
Q54D
Seat
Massage
Valve
Assembly -
Driver
B+
A90
Logic
2
7
8
4
901
VT
903
GN
3758
GN/GY
1
3
G31D
Seat Lumbar/
Bolster Pump
- Driver
M
M
2
1150
BK
1150
BK
1150
BK
P7
Display
P17
Info
Display
Module
A90
Logic
3758
GN/GY
X2
4
K40D
Seat
Memory
Control
Module -
Driver
G311

Passenger Seat Schematics

Power Seat


B+
X51R
Fuse Block - Instrument Panel Right
F49DR
30A
X1 38
1440
RD/BN
X320 2
1440
RD/BN
X1 10
S64P
Seat Adjuster Switch - Passenger
X1 1
298
GN/BU
4
297
GN/VT
6
289
BU/WH
8
288
GN/WH
9
290
YE/BU
3
296
YE/WH
7
77
BU/BN
2
76
GN
X2 6
210
VT
3
211
BU
8
792
BU/YE
4
793
BU/YE
X1 5
X321 6
5
4
3
1
2
77
BU/BN
76
GN
210
VT
211
BU
792
BU/YE
793
BU/YE
1250
BK
M
1
M50P
Seat Front Vertical Motor - Passenger
3
3
M55P
Seat Rear Vertical Motor - Passenger
1
1
M51P
Seat Horizontal Motor - Passenger
3
3
M56P
Seat Recline Motor - Passenger
1
B
M52P
Seat Lumbar Support Horizontal Motor - Passenger
A
B
M54P
Seat Lumbar Support Vertical Motor - Passenger
A
G312
LOC
DESC

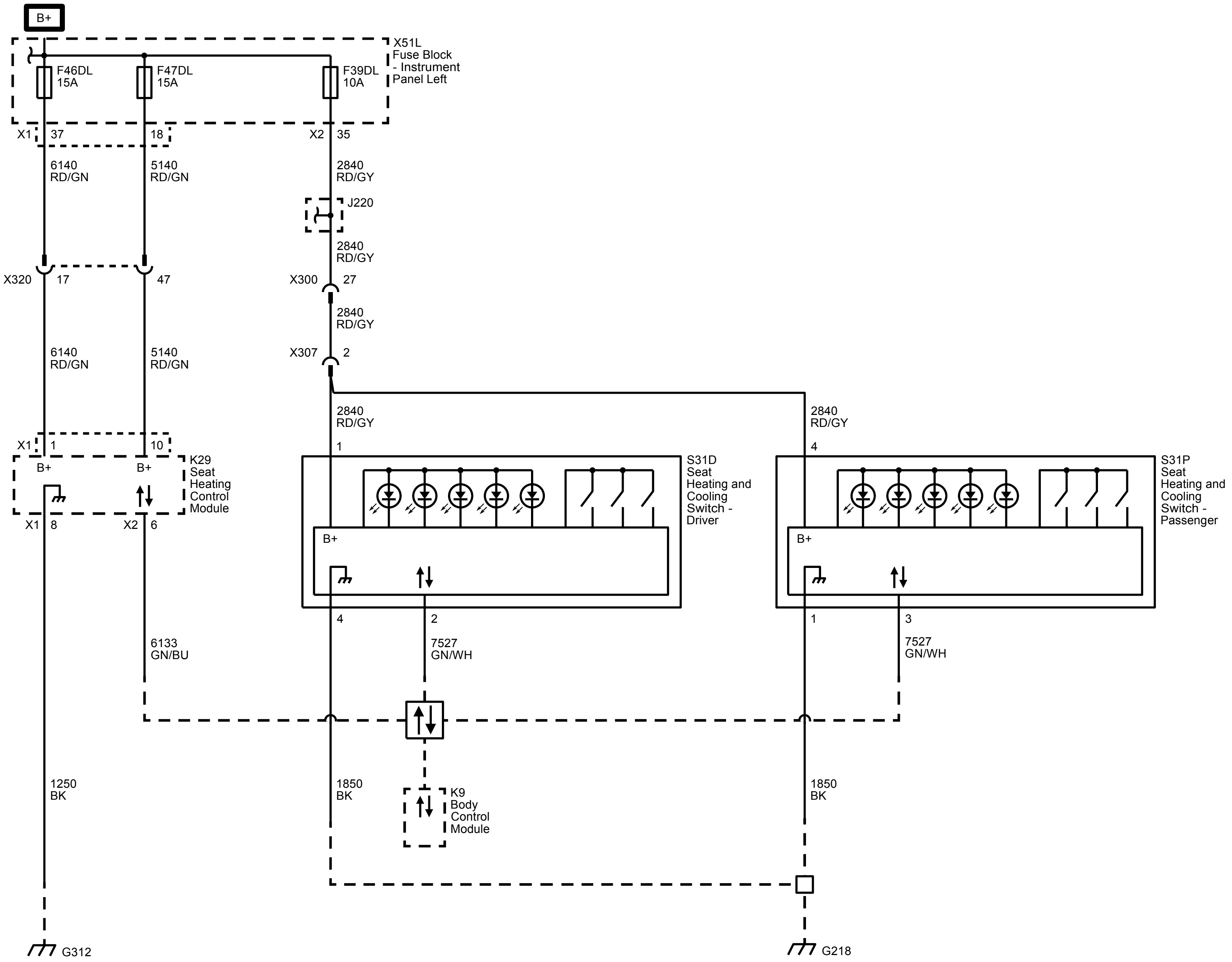

B+
X51L
Fuse Block
- Instrument
Panel Left
F20DL
15A
X1
1
2240
RD/BN
X320
13
2240
RD/BN
J329
2240
RD/BN
1
2240
RD/BN
1
S98P
Seat
Massage
Switch -
Passenger
B+
+
−
A90
Logic
4
3
3758
GN/GY
Q54P
Seat Massage
Valve
Assembly -
Passenger
A90
Logic
B+
2
7
8
4
3758
GN/GY
901
VT
903
GN
1
3
G31P
Seat Lumbar/
Bolster Pump
- Passenger
M
M
2
1250
BK
1250
BK
1250
BK
P7
Display
P17
Info
Display
Module
A90
Logic
3758
GN/GY
X2
4
K40P
Seat
Memory
Control
Module -
Passenger
G312

Seat Heating and Cooling

Schematic and Routing Diagrams

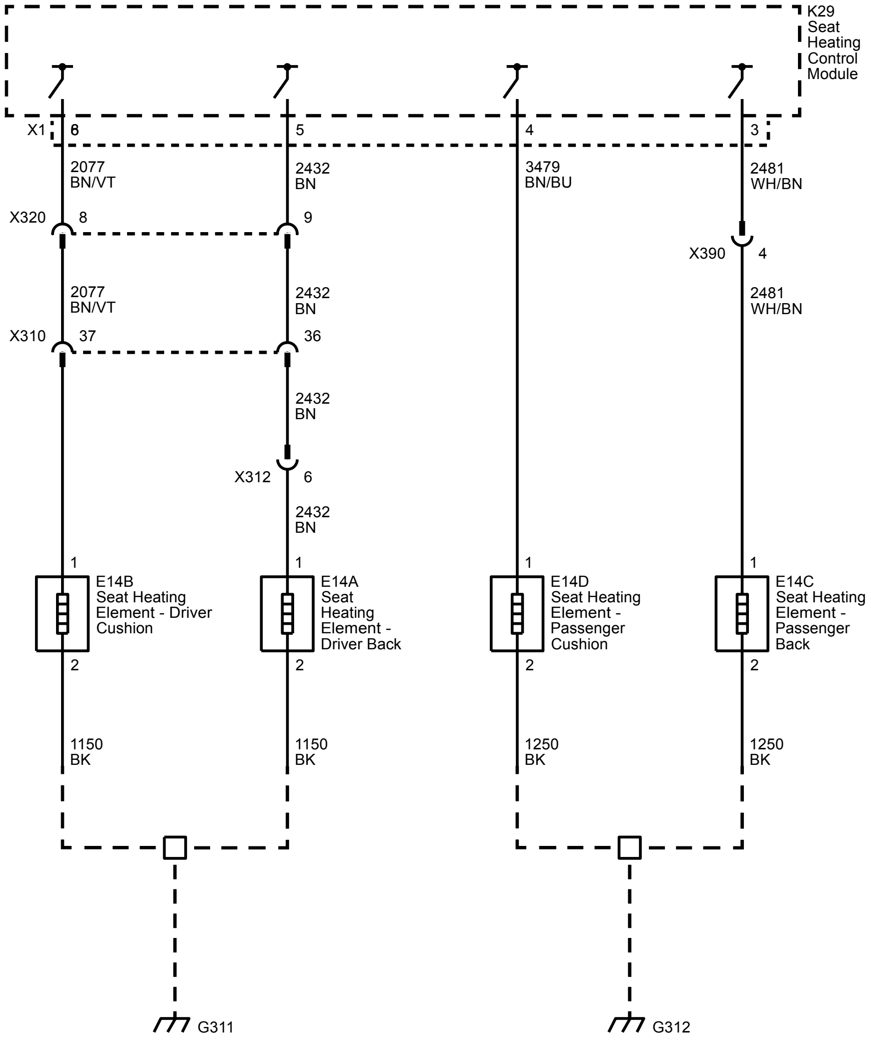
Heated/Cooled Seat Schematics

Power, Ground, Serial Data and Switches (KA1)

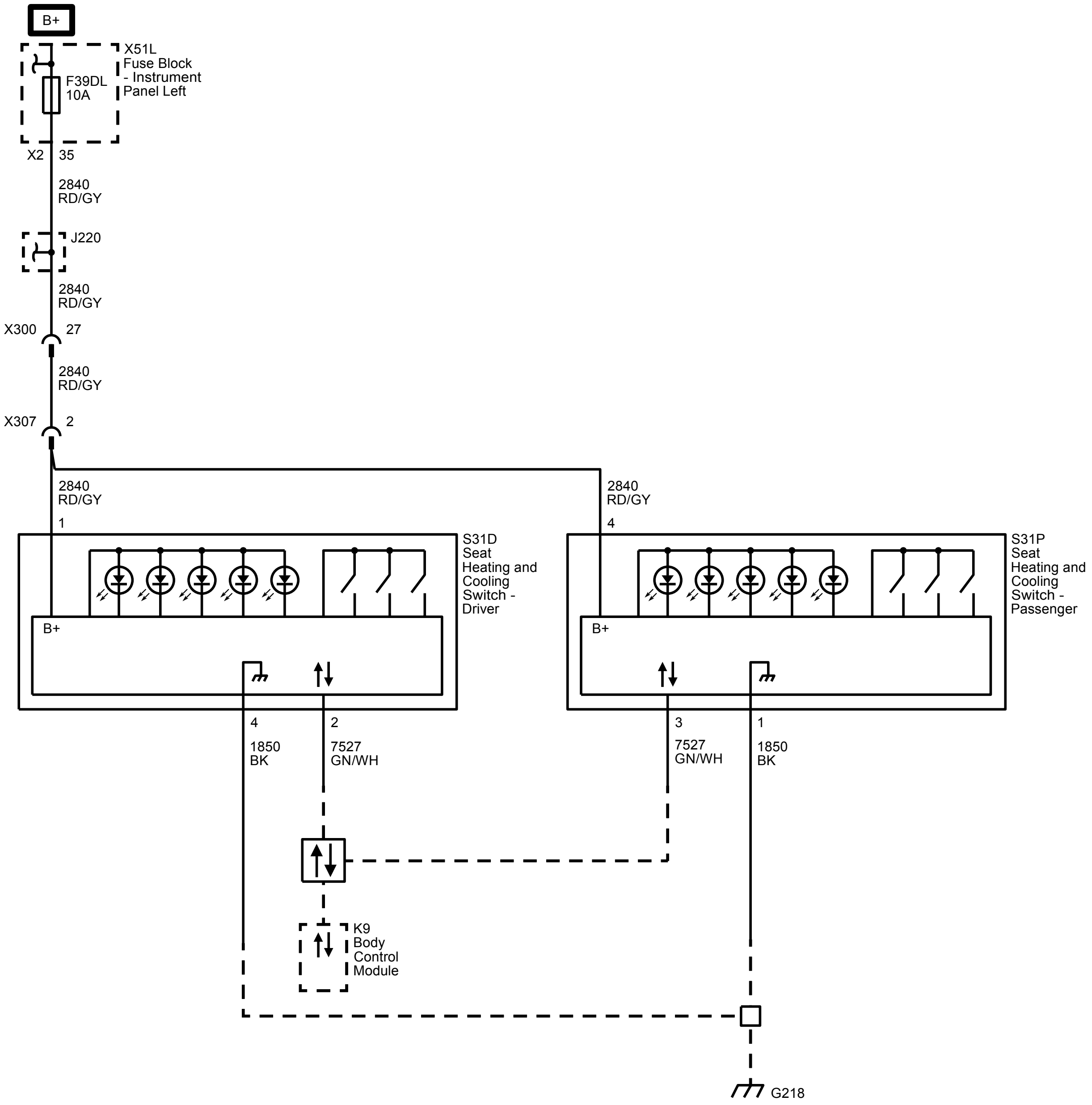

B+
X51L
Fuse Block
- Instrument
Panel Left
F46DL
15A
F47DL
15A
F39DL
10A
X1
37
18
X2
35
6140
RD/GN
5140
RD/GN
2840
RD/GY
J220
2840
RD/GY
X320
17
47
X300
27
2840
RD/GY
X307
2
6140
RD/GN
5140
RD/GN
2840
RD/GY
2840
RD/GY
X1
1
10
B+
B+
K29
Seat
Heating
Control
Module
X1
8
X2
6
1
S31D
Seat
Heating and
Cooling
Switch -
Driver
B+
4
2
4
S31P
Seat
Heating and
Cooling
Switch -
Passenger
B+
1
3
6133
GN/BU
7527
GN/WH
7527
GN/WH
1250
BK
1850
BK
1850
BK
K9
Body
Control
Module
G312
G218

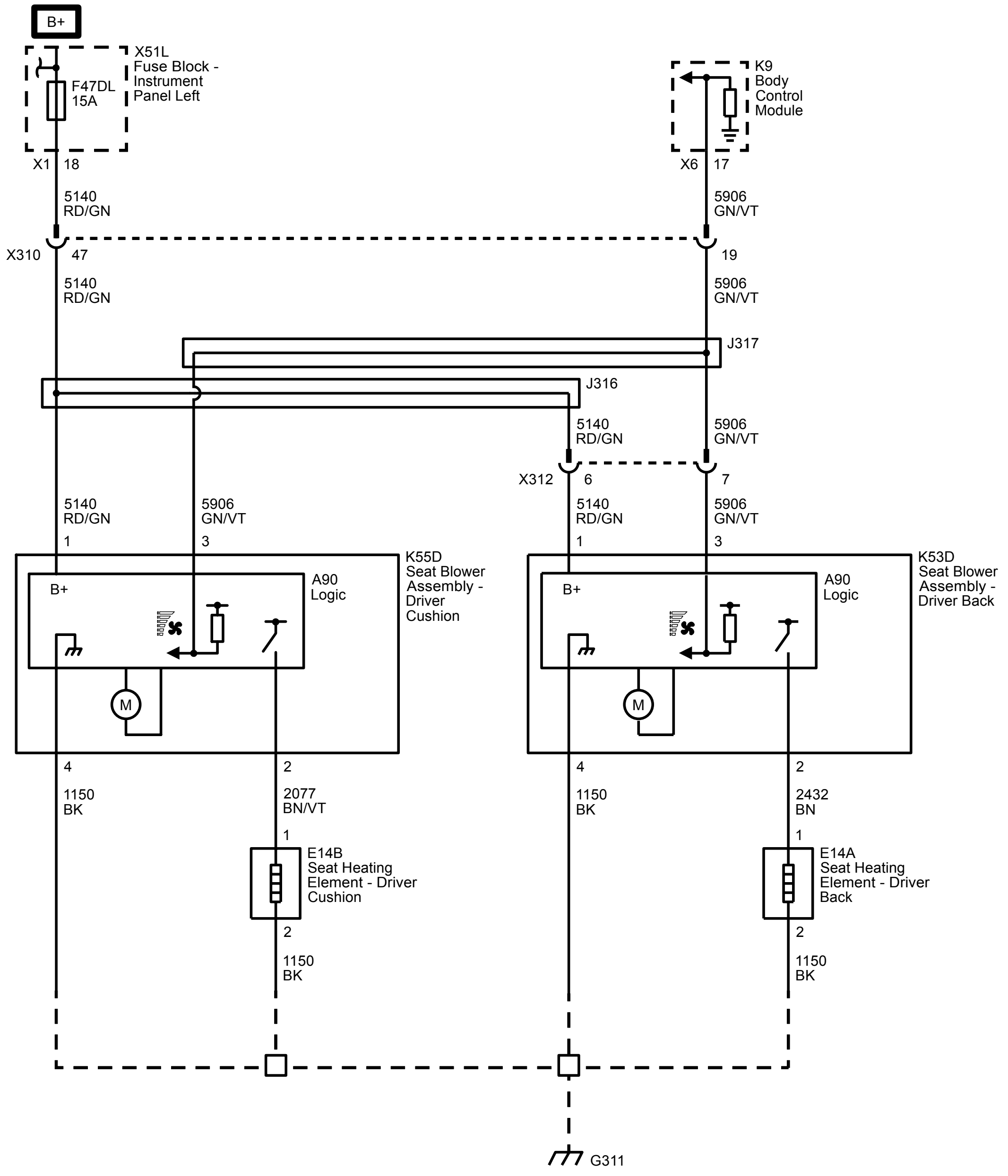
Heating Elements (KA1)

LOC
DESC

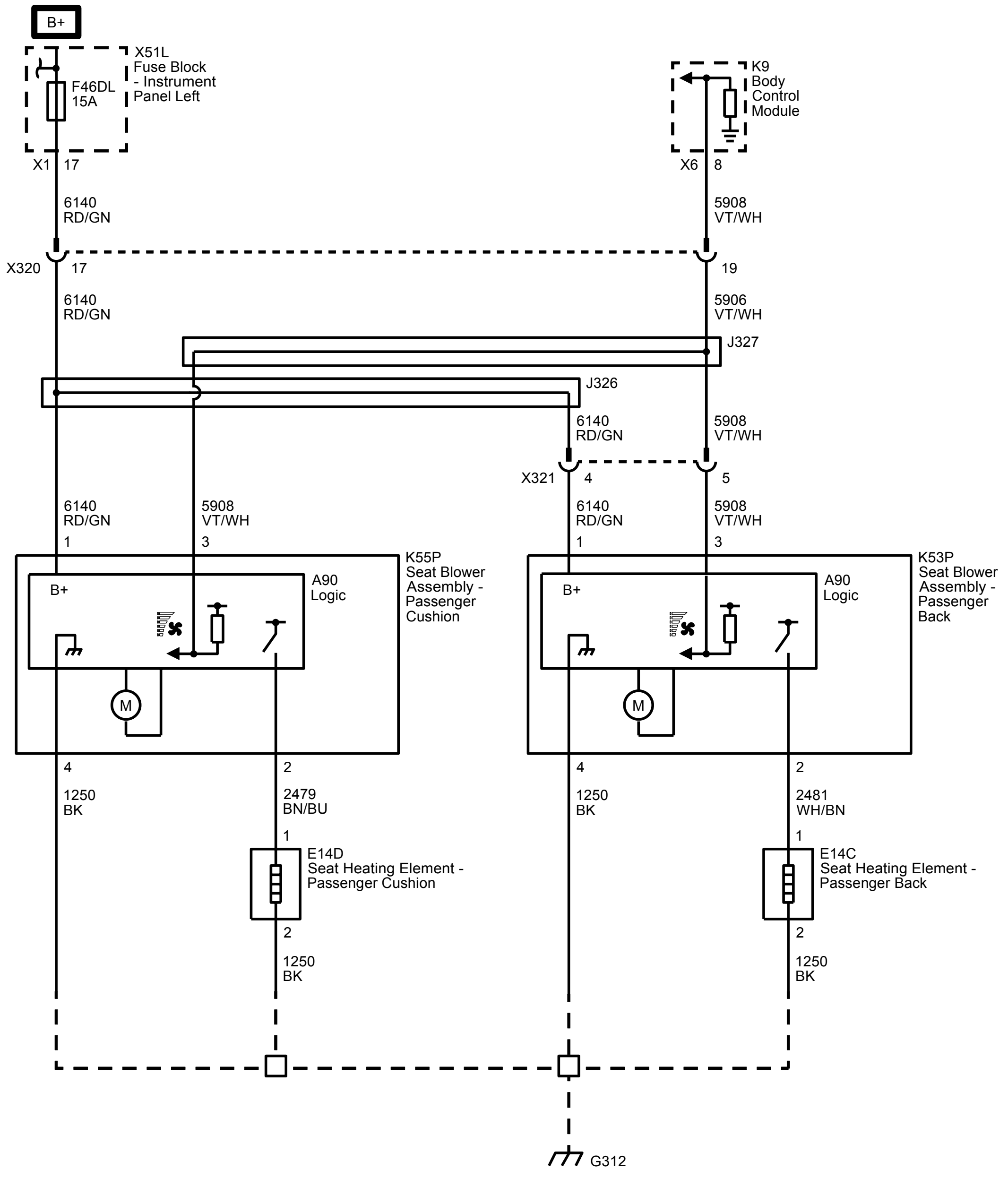

K29
Seat
Heating
Control
Module
X1
8
5
4
3
2077
BN/VT
2432
BN
3479
BN/BU
2481
WH/BN
X320
8
9
X390
4
2077
BN/VT
2432
BN
2481
WH/BN
X310
37
36
2432
BN
X312
6
2432
BN
1
E14B
Seat Heating
Element - Driver
Cushion
1
E14A
Seat
Heating
Element -
Driver Back
1
E14D
Seat Heating
Element -
Passenger
Cushion
1
E14C
Seat Heating
Element -
Passenger
Back
2
2
2
2
1150
BK
1150
BK
1250
BK
1250
BK
G311
G312

Switches (KB6)


B+
X51L
Fuse Block
- Instrument
Panel Left
F39DL
10A
X2
35
2840
RD/GY
J220
2840
RD/GY
X300
27
2840
RD/GY
X307
2
2840
RD/GY
1
2840
RD/GY
4
S31D
Seat
Heating and
Cooling
Switch -
Driver
S31P
Seat
Heating and
Cooling
Switch -
Passenger
B+
B+
4
1850
BK
2
7527
GN/WH
3
7527
GN/WH
1
1850
BK
K9
Body
Control
Module
G218

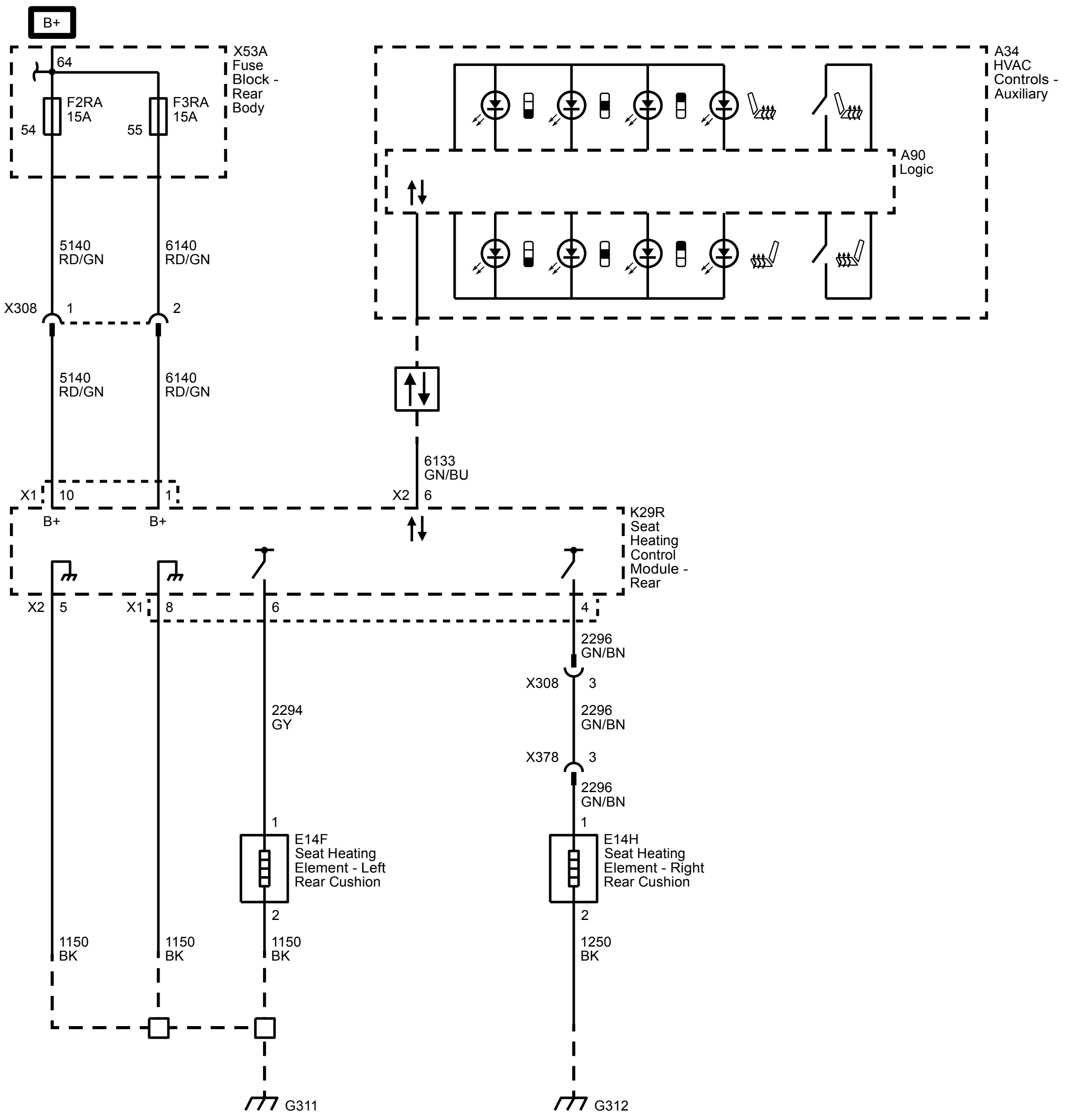

B+
X51L
Fuse Block - Instrument Panel Left
F47DL
15A
X1
18
5140
RD/GN
K9
Body Control Module
X6
17
5906
GN/VT
X310
47
19
J317
J316
X312
6
7
1
3
K55D
Seat Blower Assembly - Driver Cushion
A90
Logic
M
K53D
Seat Blower Assembly - Driver Back
4
1150
BK
2
2077
BN/VT
E14B
Seat Heating Element - Driver Cushion
2432
BN
E14A
Seat Heating Element - Driver Back
G311

Passenger Seat (KB6)



B+
X51L
Fuse Block
- Instrument
Panel Left
F46DL
15A
X1
17
6140
RD/GN
K9
Body
Control
Module
X6
8
5908
VT/WH
X320
17
19
6140
RD/GN
5906
VT/WH
J327
J326
6140
RD/GN
5908
VT/WH
X321
4
5
6140
RD/GN
1
5908
VT/WH
3
K55P
Seat Blower
Assembly -
Passenger
Cushion
B+
A90
Logic
M
4
1250
BK
2
2479
BN/BU
1
E14D
Seat Heating Element -
Passenger Cushion
2
1250
BK
6140
RD/GN
1
5908
VT/WH
3
K53P
Seat Blower
Assembly -
Passenger
Back
B+
A90
Logic
M
4
1250
BK
2
2481
WH/BN
1
E14C
Seat Heating Element -
Passenger Back
2
1250
BK
G312

Rear Seats (KA6)


B+
X53A
Fuse
Block -
Rear
Body
64
F2RA
15A
F3RA
15A
54
55
5140
RD/GN
6140
RD/GN
X308
1
2
5140
RD/GN
6140
RD/GN
A34
HVAC
Controls -
Auxiliary
A90
Logic
6133
GN/BU
X1
10
1
X2
6
B+
B+
K29R
Seat
Heating
Control
Module -
Rear
X2
5
X1
8
6
4
2296
GN/BN
X308
3
2294
GY
2296
GN/BN
X378
3
2296
GN/BN
1
1
E14F
Seat Heating
Element - Left
Rear Cushion
E14H
Seat Heating
Element - Right
Rear Cushion
2
2
1150
BK
1150
BK
1150
BK
1250
BK
G311
G312

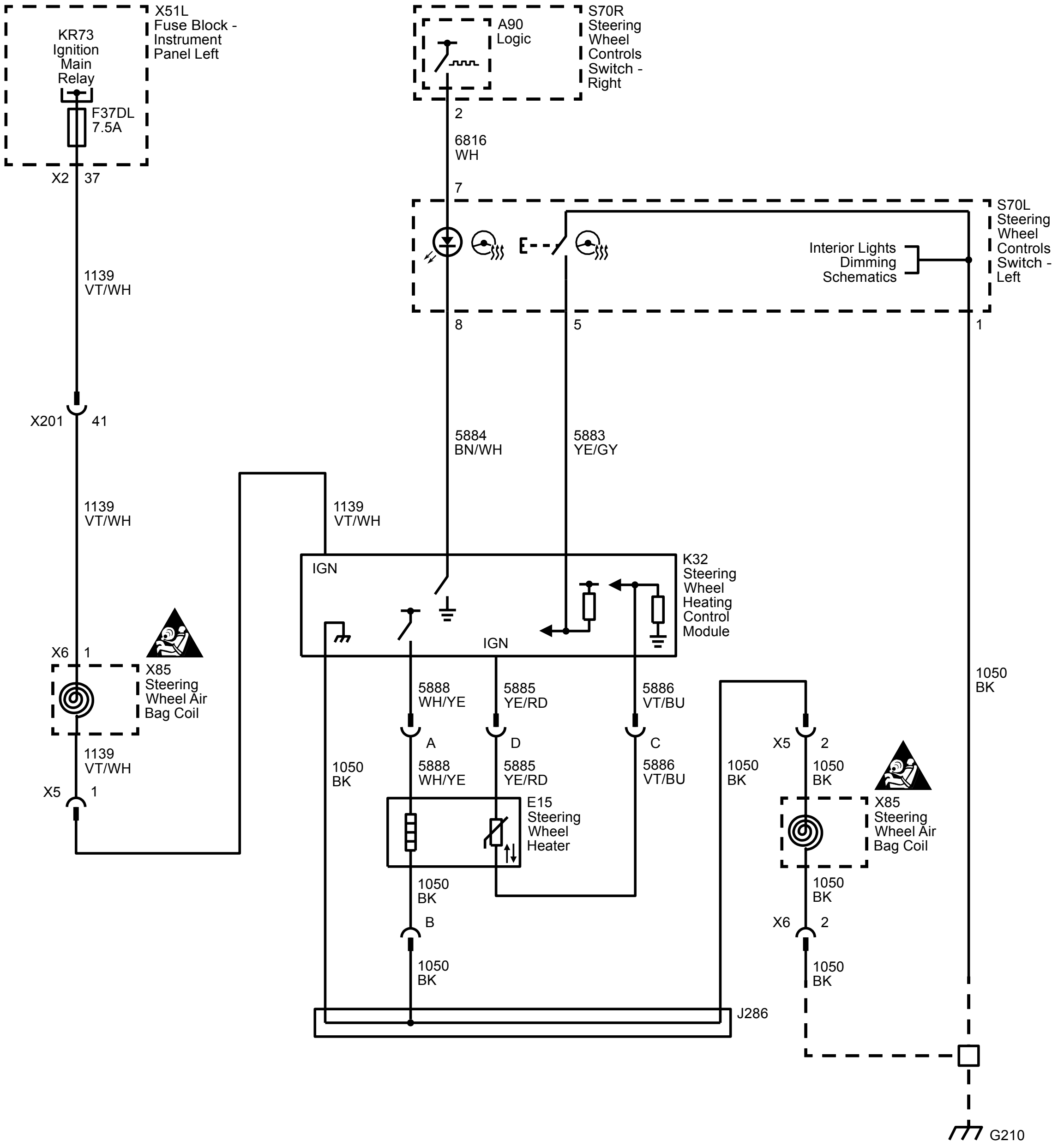
Steering

Steering Wheel and Column

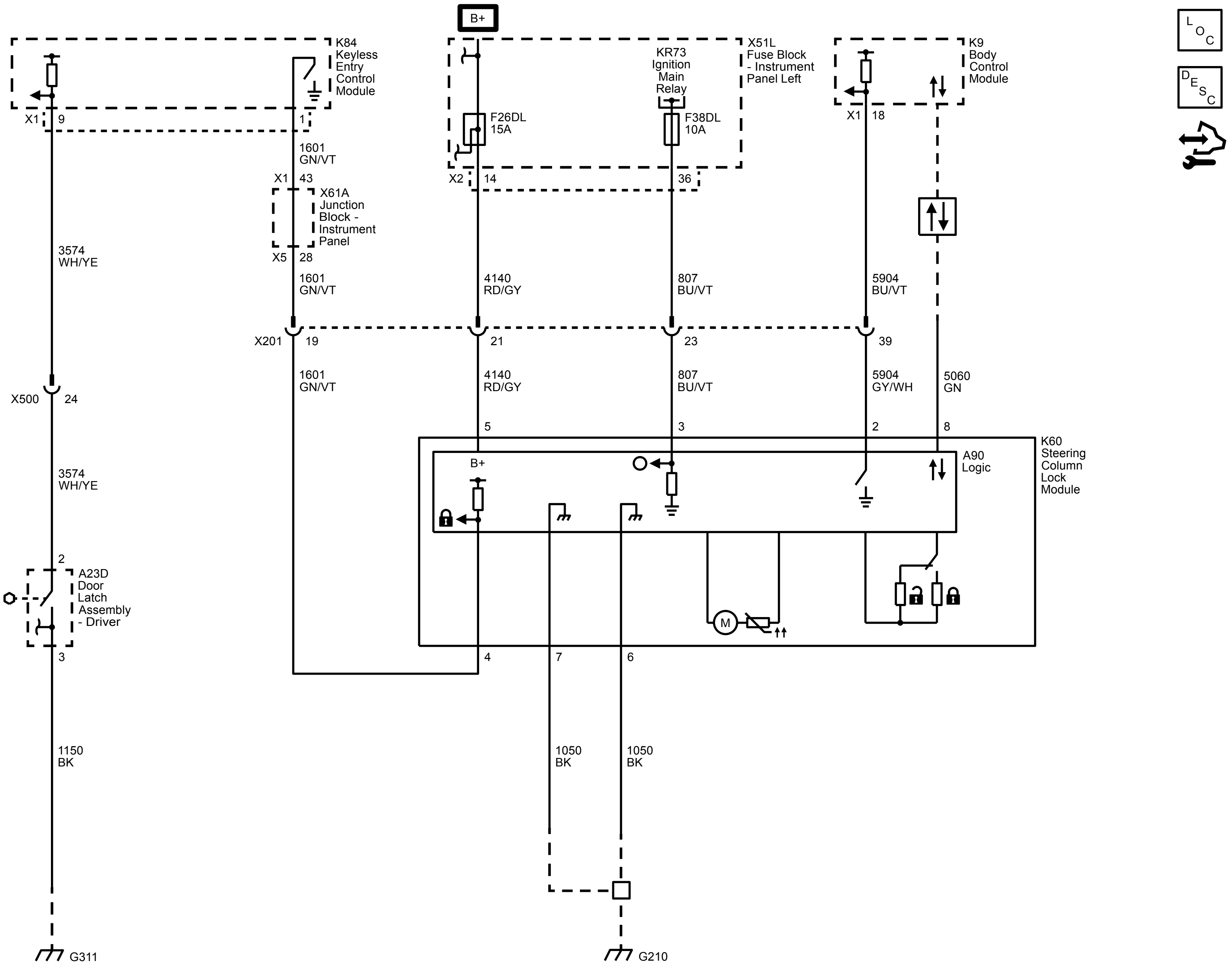
Schematic and Routing Diagrams

Steering Wheel Schematics

Heated Steering Wheel


KR73 Ignition Main Relay
X51L Fuse Block - Instrument Panel Left
F37DL 7.5A
X2
37
1139 VT/WH
X201
41
1139 VT/WH
X6
1
X85 Steering Wheel Air Bag Coil
1139 VT/WH
X5
1
A90 Logic
S70R Steering Wheel Controls Switch - Right
2
6816 WH
7
S70L Steering Wheel Controls Switch - Left
Interior Lights Dimming Schematics
8
5
1
5884 BN/WH
5883 YE/GY
1139 VT/WH
IGN
IGN
K32 Steering Wheel Heating Control Module
5888 WH/YE
5885 YE/RD
5886 VT/BU
A
D
C
1050 BK
5888 WH/YE
5885 YE/RD
5886 VT/BU
E15 Steering Wheel Heater
1050 BK
B
1050 BK
J286
1050 BK
1050 BK
X5
2
1050 BK
X85 Steering Wheel Air Bag Coil
1050 BK
X6
2
1050 BK
G210

Steering Column Lock (BTM)


B+
K84 Keyless Entry Control Module
X1 9
1
1601 GN/VT
X1 43
X61A Junction Block - Instrument Panel
X5 28
1601 GN/VT
3574 WH/YE
X51L Fuse Block - Instrument Panel Left
KR73 Ignition Main Relay
F26DL 15A
F38DL 10A
X2 14
36
4140 RD/GY
807 BU/VT
K9 Body Control Module
X1 18
5904 BU/VT
X201 19
21
23
39
X500 24
1601 GN/VT
4140 RD/GY
807 BU/VT
5904 GY/WH
5060 GN
5
3
2
8
K60 Steering Column Lock Module
A90 Logic
B+
M
3574 WH/YE
2
A23D Door Latch Assembly - Driver
3
4
7
6
1150 BK
1050 BK
1050 BK
G311
G210
L O C
D E S C

Transmission

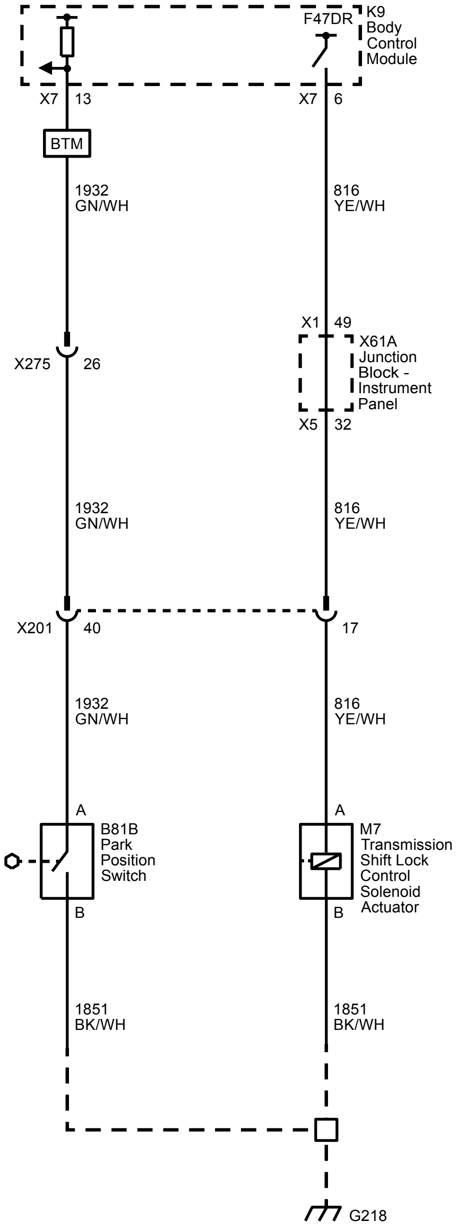
Shift Lock Control

Schematic and Routing Diagrams

Shift Lock Control Schematics

Shift Lock Control

LOC
DESC


F47DR
K9
Body
Control
Module
X7
13
X7
6
BTM
1932
GN/WH
816
YE/WH
X1
49
X61A
Junction
Block -
Instrument
Panel
X275
26
X5
32
1932
GN/WH
816
YE/WH
X201
40
17
1932
GN/WH
816
YE/WH
A
B81B
Park
Position
Switch
B
A
M7
Transmission
Shift Lock
Control
Solenoid
Actuator
B
1851
BK/WH
1851
BK/WH
G218

Diagnostic Information and Procedures

Symptoms - Automatic Transmission Shift Lock Control

Important: The following steps must be completed before using the symptom tables.

1. Perform the CELL Link Error - Link target cell (cell ID 72794) is invalid for this publication. before using the Symptom Tables in order to verify that all of the following are true:
    - There are no DTCs set.
    - The control modules can communicate via the serial data link.
2. Review the system operation in order to familiarize yourself with the system functions. Refer to CELL Link Error - Link target cell (cell ID 57488) is invalid for this publication..

Visual/Physical Inspection

- Inspect for aftermarket devices which could affect the operation of the automatic transmission shift lock control. Refer to CELL Link Error - Link target cell (cell ID 62100) is invalid for this publication..
- Inspect the easily accessible or visible system components for obvious damage or conditions which could cause the symptom.

Intermittent

Faulty electrical connections or wiring may be the cause of intermittent conditions. Refer to CELL Link Error - Link target cell (cell ID 62112) is invalid for this publication.

Symptom List

Refer to a symptom diagnostic procedure in order to diagnose the symptom:

CELL Link Error - Link target cell (cell ID 160926) is invalid for this publication.